

FE-2 CHASSIS

SERVICE MANUAL

MODEL	COMMANDER	DEST	CHASSIS NO.	MODEL	COMMANDER	DEST	CHASSIS NO.
KV-14LT1B	RM-887	French	SCC-Q54B-A	KV-14LM1B	RM-889	French	SCC-Q54D-A
KV-14LT1E	RM-887	Spanish	SCC-Q53B-A	KV-14LM1E	RM-889	Spanish	SCC-Q53D-A
KV-14LT1K	RM-887	OIRT	SCC-Q51B-A	KV-14LM1K	RM-889	OIRT	SCC-Q51D-A
KV-14LT1U	RM-887	UK	SCC-Q52B-A	KV-14LM1U	RM-889	UK	SCC-Q52D-A

FD Trinitron

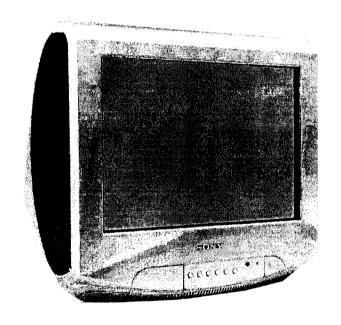






TABLE OF CONTENTS

Title		Page	Section	Title		Page
Specifications		3	3. SET-UP	ADJUSTMENTS		
•		5	3-1.			14
	***************************************	6	3-2.	•		15
Sen Diagnostic Bonware		_		•		17
AL.			3-4.	Screen (G2), White Balance		17
Switching On the TV and						
Automatically Tuning		7	4. CIRCUIT	ADJUSTMENTS		
Introducing the Menu System		8	4-1.	Electrical Adjustments		18
Teletext		10	4-2.	Test Mode 2		20
Connecting Optional Equipment	nt	10				
~ ·		10	5. DIAGRAI	MS		
· · · · · · · · · · · · · · · · · · ·		11	5-1.	Circuit Board Location		22
•		11	5-2.	Block Diagrams		23
110 40100000 0 6			5-3.	Schematic Diagrams and		
EMBLY				Printed Wiring Boards		22
		12		* C Board		27
		12		* A Board		29
		12	5-4.	Semiconductors		37
= = =		12	5-5.	IC Blocks		39
		12				
<u> </u>		13	6. EXPLOD	ED VIEWS		
Tietare Tabe Removal	****		6-1.	Chassis		40
			6-2.	Picture Tube		41
			7 FLECTR	ICAL PARTS LIST		42
	Specifications Connectors Self Diagnostic Software AL Switching On the TV and Automatically Tuning Introducing the Menu System Teletext	Specifications Connectors Self Diagnostic Software AL Switching On the TV and Automatically Tuning Introducing the Menu System Teletext Connecting Optional Equipment. Using Optional Equipment Specifications Troubleshooting EMBLY Rear Cover Removal A PWB Removal [1] A PWB Removal [2] Service Position Wire Dressing	Specifications 3 Connectors 5 Self Diagnostic Software 6 XL Switching On the TV and Automatically Tuning 7 Introducing the Menu System 8 Teletext 10 Connecting Optional Equipment 10 Using Optional Equipment 10 Specifications 11 Troubleshooting 11 EMBLY Rear Cover Removal 12 A PWB Removal [1] 12 A PWB Removal [2] 12 Service Position 12 Wire Dressing 12	Specifications 3 3 SET-UP / Connectors 5 3-1 3-2 3-3 3-4 Switching On the TV and Automatically Tuning 7 4 CIRCUIT Introducing the Menu System 8 4-1 4-2 Connecting Optional Equipment 10 Using Optional Equipment 10 Using Optional Equipment 10 5-1 5-1 5-2 5-3 Service Position 12 A PWB Removal [1] 12 A PWB Removal [2] 12 5-4 Service Position 12 Service Position 12 Service Position 12 For the Position 13 Connecting 14 Connecting 15 Connecting 16 Connecting 17 Connecting 18 Connecting 19 Connectin	Specifications 3 3 SET-UP ADJUSTMENTS	Specifications 3

CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR THE CARBON PAINTED ON THE CRT, AFTER REMOVAL OF THE ANODE CAP.

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE WORK TO AVOID POSSIBLE SHOCK HAZARD DUE TO LIVE CHASSIS, THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARKED & ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION

APRES AVOIR DECONNECTE LE CAP DE'LANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION !!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENTION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÈ LORS DE TOUT DÈPANNAGE LE CHÁSSIS DE CE RÈCEPTEUR EST DIRECTMENT RACCORDÈ Á L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS Á LA SECURITÈ!!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE A SUR LES SCHÈMAS DE PRINCIPE, LES VUES EXPLOSÈES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÈCURITÈ DU FONCTIONNEMENT, NE LES REMPLACER QUE PAR DES COMPSANTS SONY DONT LE NUMÈRO DE PIÈCE EST INDIQUÈ DANS LE PRÈSENT MANUEL OU DANS DES SUPPLÈMENTS PUBLIÈS PAR SONY.

ITEM MODEL	Television System	Channel Coverage	Color System
French	B/G/H, L,!	VHF : E2-E12, F2-F10 UHF : E21-E69 CABLE TV : S01-S03, S1-S20, B-Q HYPER : S21-S41 L F02-F10, F21-F69 I UHF : B21-B69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
Spanish	B/G/H	VHF : E2-E12 UHF : E21-E69 CABLE TV : S01-S03, S1-S20, B-Q HYPER : S21-S41	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
OIRT	B/G/H, D/K	VHF : E2-E12, R01-R12 UHF : E21-E69, R21-R69 CABLE TV : S01-S03, S1-S20, B-Q HYPER : S21-S41	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
UK	I	I : UHF B21-B69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)

Model	KV-14LT1/LM1B	KV-14LT1/LM1E	KV-14LT1/LM1K	KV-14LT1/LM1U
Power Consumption	42W	42W	42W	54W

Flat Display FD Trinitron Approx 37cm (14 inches)		A COM (At air Danie)
	Sound output	1x6W (Music Power) 1x3W (RMS Mono)
		1X3VV (NVIS INICIA)
REAR]	Power Requirements	220 - 240V
Inputs for Audio and Video signals. Inputs for RGB. Outputs of TV Video and Audio signals.	Dimensions	Approx 393x358x415mm
RONT]	Weight	Approx 11.5kg
phono jack	Supplied Accessories	KV-14LT1: RM-887 Remote Commander (1) KV-14LM1: RM-889 Remote Commander (1) IEC designated R6 battery (2)
phono jack	Other Features	KV-14LT1: Teletext, Sleep Timer, Smartlink,TV system Autodetection KV-14LM1: Sleep Timer,TV system Autodetection
	Remote control system	Infrared control
stereo mini jack	Power requirements	3V dc 2 batteries IEC designation R6 (size AA)
	Approx. 37cm (14 inches) (Approx. 34 cm picture measured diagonally) 90 degree deflection REAR] Inputs for Audio and Video signals. Inputs for RGB. Outputs of TV Video and Audio signals. FRONT] phono jack	Approx. 37cm (14 inches) (Approx. 34 cm picture measured diagonally) 90 degree deflection REAR] Inputs for Audio and Video signals. Inputs for RGB. Outputs of TV Video and Audio signals. FRONT] Weight phono jack Other Features Remote control system

Model Name Item	KV-14LT1B	KV-14LT1E	KV-14LT1K	KV-14LT1U	KV-14LM1B	KV-14LM1E	KV-14LM1K	KV-14LM1U
Pal Comb	OFF							
PIP	OFF							
RGB Priority	ON	ON	OFF	ON	ON	ON	OFF	ON
Woofer Box	OFF							
Scart 1	ON							
Scart 2	OFF							
Front in (3)	OFF							
Scart 4	OFF							
Projector	OFF							
AKB in 16:9 mode	OFF							
Norm B/G	ON	ON	ON	OFF	ON	ON	ON	OFF
Norm I	ON	OFF	OFF	ON	ON	OFF	OFF	ON
Norm D/K	ON	OFF	ON	OFF	ON	OFF	ON	OFF
Norm AUS	OFF							
Norm L	ON	OFF	OFF	OFF	ON	OFF	OFF	OFF
Norm SAT	OFF							
Norm M	OFF							
Teletext	ON	ON	ON	ON	OFF	OFF	OFF	OFF
Nicam Stereo	OFF							

WARNING (UK Models only)

The flexible mains lead is supplied connected to a **B.S.** 1363 fused plug having a fuse of **5 AMP** rating. Should the fuse need to be replaced, use a **5 AMP FUSE** approved by ASTA to **BS 1362**, ie one that carries the mark.

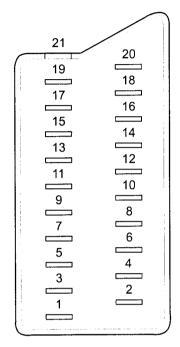
IF THE PLUG SUPPLIED WITH THIS APPLIANCE IS NOT SUITABLE FOR THE OUTLET SOCKETS IN YOUR HOME, IT SHOULD BE CUT OFF AND AN APPROPRIATE PLUG FITTED. THE PLUG SEVERED FROM THE MAINS LEAD MUST BE DESTROYED AS A PLUG WITH BARED WIRES IS DANGEROUS IF ENGAGED IN A LIVE SOCKET.

When an alternative type of plug is used, it should be fitted with a 5 AMP FUSE, otherwise the circuit should be protected by a 5 AMP FUSE at the distribution board.



How to replace the fuse. Open the fuse compartment with a screwdriver blade and replace the fuse.

FUSE

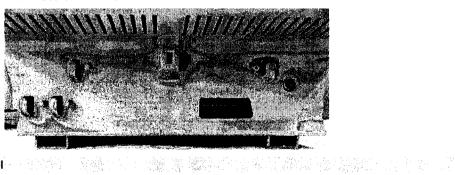


21 pin connector							
		Pin No	1	2	4	Signal	Signal level
		1	0	0	0	Audio output B (right)	Standard level : 0.5V rms Output impedence : Less than 1kohm*
		2	0	0	0	Audio output B (right)	Standard level : 0.5V rms Output impedence : More than 10kohm*
		3	0	0	0	Audio output A (left)	Standard level : 0.5V rms Output impedence : Less than 1kohm*
		4	0	0	0	Ground (audio)	
		5	0	0	0	Ground (blue)	
21	20	6	0	0	0	Audio input A (left)	Standard level : 0.5V rms Output impedence : More than 10kohm*
19	40	7	0	•	•	Blue input	0.7 +/- 3dB, 75 ohms positive
17	18	8	0	0	0	Function select (AV control)	High state (9.5-12V) : Part mode Low state (0-2V) : TV mode Input impedence : More than 10K ohms Input capacitance : Less than 2nF
	14	9	0	0	0	Ground (green)	
13		10	0	0	0	Open	
11	12	11	0	•	•	Green	Green signal : 0.7 +/- 3dB, 75 ohms, positive
	10	12	0	0	0	Open	
9	8	13	0	0	0	Ground (red)	
7		14	0	0	0	Ground (blanking)	
5	6		0	-	-	Red input	0.7 +/- 3dB, 75 ohms, positive
3	8 6 4 2	15	-	0	0	(S signal Chroma input)	0.3 +/- 3dB, 75 ohms, positive
	2	16	0	•	•	Blanking input (Ys signal)	High state (1-3V) Low state (0-0.4V) Input impedence : 75 ohms
	<u></u> .	17	0	0	0	Ground (video output)	
		18	0	0	0	Ground (video input)	
		19	0	0	0	Video output	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
			0	-	-	Video input	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
		20	-	0	0	Video input Y (S signal)	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
		21	0	0	0	Common ground (plug, shield)	

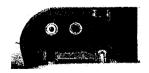
Onnected

Not Connected (open) * at 20Hz - 20kHz

Rear Connection Panel



Front Connection Panel



FE-2 SELF DIAGNOSTIC SOFTWARE

The identification of errors within the FE-2 chassis is triggered in one of two ways: -1: Busy or 2: Device failure to respond to IIC. In the event of one of these situations arising the software will first try to release the bus if busy (Failure to do so will report with a continuous flashing LED) and then communicate with each device in turn to establish if a device is faulty. If a device is found to be faulty the relevant device number will be displayed through the LED (Series of flashes which must be counted) See table 1., non fatal errors are reported using this method. Each time the software detects an error it is stored within the NVM. See Table 2.

Table 1

Error Message	LED Code
No error	00
Reserved	01
OCP (Over Current Protection)	02
Reserved	03
No Vertical Sync	04
Unstable AKB	05
IIC bus clock and/or data lines low at power on	06
NVM no IIC bus acknowledge at power on	07
Not Used	08
Tuner no acknowledge at power on	09
Not used	10
Jungle controller no acknowledge at Power ON	11

How to enter into Table 2

- 1. Turn on the main power switch of the TV set and enter into the 'Stanby Mode'.
- Press the following sequence of buttons on the Remote Commander.



3. The following table will be displayed indicating the error count.

Flash Timing Example: e.g. error number 3

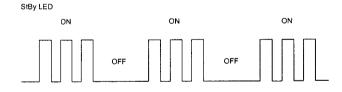


Table 2

ERROR MENU			
E02 E03 E04 E05 E06 E07 E08 E09 E10 E11	OCP OVP N/A VSYNC IKR IIC NVM JUNGLE TUNER SOUNDP 8V	(0, 255) (0, 255) (0, 255) (0, 255) (0, 255) (0, 255) (0, 255) (0, 255) (0, 255) (0, 255)	0 0 0 0 0 0 0 0 0 0 0 0
WORKING TIME HOURS MINUTES			0 0

Note: To clear the error count data press '80' on the Remote commander.

TNE2 1762 173 173 173 173

(3)

The operating instructions mentioned here are partial abstracts from the 'Operating Instruction Manual'. The page numbers of the 'Operating Instruction Manual' remain as in the manual.

Switching On the TV and Automatically Tuning

The first time you switch on your TV, a sequence of menu screen appear on the TV enabling you to: 1) choose the tanguage of the menu screen. Suchoose the country in which you wish it on operate the TV. 3) search and store all available channels (TV Broadcast) and 4) change the order in which the channels (TV Broadcast) appear on the screen. However, if you need to change the language menu, change or repeat the tuning (e.g., when you move bouse) or rearrange again the order of the channels afterwards, you can do that by selecting the appropriate menu in the (E) (Set Up). For more information, refer to the "Menu Guide" section of this instruction manual. You can also do that by pressing the Auto Start Up Button Eg. on the TV set.

Connect the TV plug to the mains socket (220-240V AC,

Press the **O** on/off button on the TV set to turn on the TV The first time you press this button, a Language menu displays automatically on the TV screen.







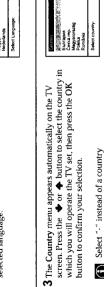








<u>a</u>





· If the country in which you want to use the TV set

• If you do not want your channels (TV Broadcast)

does not appear in the list.

stored in a given channel sequence starting from

programme position 1.

(8) Do you want to start automatic tuning? 2

4 The **Auto Tuning** menu appears on the screen. Press the OK button to select Yes.

continued..

First Time Operation

First Time Operation

that the aerial is connected. Ensure the aerial is connected 5 A new menu appears on the screen asking you to check and then press the OK button to start the automatic

Please confirm that aerial is connected The TV starts to automatically search and store all available channels (TV Broadcast) for you.

8





This procedure could take some minutes. Please be patient and do not press any button. Otherwise the

automatic tuning will not be completed.

 After all available channels are captioned and stored,
 the Programme Sorting menu appears automatically on the screen enabling you to change the order in which the channels appear on the screen.

If you do not wish to change the channel order, go to a)

6

If you wish to change the channel order:

number with the channel (TV Broadcast) you wish 1 Press the ◆ or ◆ button to select the programme to rearrange, then press the \$\infty\$ button.

programme number position for your selected channel (TV Broadcast), then press $\, \, \spadesuit \,$. 2 Press the
or
button to select the new

3 Repeat steps b)1 and b)2 if you wish to change the order of the other channels. 7 Press the MENU button to remove the menu from the

WEN .

Your TV is now ready for use

2 Press the • or • button on the remote control to select

the language, then press the **OK** button to confirm your selection. From now on all the menus will appear in the

selected language

Introducing and Using the Menu System

Your TV uses an on-screen menu system to guide you through the operations. Use the following buttons on the Remote Control to operate the menu system:

Thress the MENU button to switch the first level menu on



2 • To highlight the desired menu or option, press ◆ or ◆.

To enter to the selected menu or option, press

To return to the last menu or option, press

◆ 10 **◆** / **♦** / To alter settings of your selected option, press

· To confirm and store your selection, press OK.



3 Press the MENU button to remove the menu from the screen.



GB

Menu Guide

Level 3 / Function



PICTURE ADJUSTMENTThe "Picture Adjustment" menu allows you to To do that: after selecting the item you want to alter the picture adjustments.

picture mode based on the programme you are alter press 🔷 , then press repeatedly 🛡 / 🛧 ◆ or ◆ to adjust it and finally press OK to This menu also allows you to customise the store the new adjustment.

Personal (for individual settings).
 Live (for live broadcast programm
 Movie (for films)

watching:

Live (for live broadcast programmes).

Brightness, Colour and Sharpness can only be alterated if "Personal" mode is selected.
Hue is only available for NTSC colour signal (e.g. USA video tapes).
Select Reset and press OK to reset the picture to the factory preset levels.

Menu System | 9

continued.

Level 2

- 1 Level 1

Level 3 / Function

The "Sleep Timer" option in the "Timer" menu allows you to select a time period for the TV to switch itself automatically into the standby SLEEP TIMER

9 Q

To do that: after selecting the option press \clubsuit , then press \blacktriangledown or \clubsuit to set the time period delay (max. of 4 hours) and finally press OK to store. While watching the TV, you can press the
 button on the remote control to display the

time remaining. One minute before the TV switches itself into

standby mode, the time remaining is displayed on the TV screen automatically.

ON TIMER
The "On Timer" option in the "Timer" menu allows you to select a time period for the TV to switch itself automatically on from standby mode.

†###

To do that after selecting the option press ♦, then press ♦ or ♦ to set the time period delay (max. 12 hours) and press OK to store. Finally press the standby button |/O on the remote control. After the selected length of time the TV switches on automatically.

8 6

5 0

• The standby indicator Φ on the TV set flashes regularly to indicate that "On Timer" is active. • Any loss of power will cause these settings to be cleared.

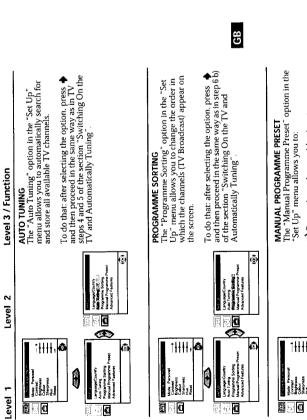
-]@ **◆** -1111 0

The 'Language/Country' option in the 'Set Up' menu allows you to select the language that the menus are displayed in. It also allows you to select the country in which you wish to operate the TV set. LANGUAGE / COUNTRY

To do that: after selecting the option, press \Rightarrow and then proceed in the same way as in the steps 2 and 3 of the section "Switching On the TV and Automatically Tuning".

continued.

Menu System



3 After selecting the Channel option, press ♣. Then press ♦ or ♠ to select the channel tuning (°C. for terrestrial channels or °S' for cable channels). Next press ♦. After that, press the number buttons to enter directly the channel number of the TV Broadcast or the channel of the VCR signal. If you do not know the channel number, press ♦ or ♠ to search for it. When you tune the desired channel, press OK twice to store. Repeat all the above steps to tune and store more channels.	b)Normally the automatic finc tuning (AFT) is operating, however you can manually fine tune the TV to obtain a better picture reception in the case that the picture is distorted.	To do that: while watching the channel (TV Broadcast) you wish to fine tune. select the AFT option and press ♣. Next press ♣ to adjust the fine tuning between -15 and +15. Finally press OK twice to store.	c) Skip any unwanted programme numbers when they are selected with the PROGR +/-buttons.	To do that: Highlighting the Programme option, press the PROGR +/- button to select the programme number you want to skip. When the programme you want to skip appears on the screen, select the Skip option and press ◆. Next press ◆ or ◆ to select Yes. Finally press OK twice to confirm and
Solvent Property Prop	255 6 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9			

Level 3 / Function

Level 2

Level 1

9 0

a) Preset channels or a video input source one by one to the programme order of your choice. To do that:

programme number you want to preset the channel (for VCR, select programme number "0"). Then press ◆. Preset" option, press ♦ then with

Programme option highlighted press ♦.

Press ♦ or ♠ to select on which 1 After selecting the "Manual Programme

2 After selecting the System option, press ♦ Then press ♥ or ♠ to select the TV Broadcast system (BVG for western European countries or D/K for eastern European countries). Then press ♦

To do that: Highlighting the **Programme** option, press the **PROGR** +/- button to select the programme number with the channel you wish to name. When the programme you want to name appears on the screen, select

d) Label a channel using up to five characters.

To cancel this function afterwards, select "No" instead of "Yes" in the step above.

press • or • to select a letter, number or "." for a blank. Press • to confirm this character. Select the other four characters in the same way. After selecting all the characters, press OK twice to store.

the Label option and press . Next

continued..

12 | Menu System

9

Menu System | 11

continued..

Teletext

Teletext is an information service transmitted by most TV stations. The index page of the teletext service (usually page 100) gives you information on how to use the service. To operate teletext, use the remote control buttons as indicated below. Make sure to use a channel (TV Broadcast) with a strong signal, otherwise teletext errors may occur.

To Switch On Teletext:

After select the channel (TV Broadcast) which carries the teletext you wish to view, press

TELETEXT

To Select a Teletext page:

Input 3 digits for the page number, using the numbered buttons.

- If you have made a mistake, retype the correct page number.
- If the counter on the screen continues searching, it is because this page is not available. In that case, input another page number

To access the next or preceding page:

Press PROGR + ((E)) or PROGR - ((E))

To superimpose teletext on to the TV:

Whilst you are viewing teletext, press (Press it again to cancel teletext mode.

To freeze a teletext page:

Some teletext pages have sub-pages which follow on automatically. To stop them, press ← / ← Press it again to cancel the freeze.

To reveal concealed information (e.g. answer to a quiz):

Press 🕀/②. Press it again to conceal the information.

To Switch Off Teletext:

Press O

Fastext

the bottom of the teletext page. Press the colour button (red, green, yellow or blue) to access Fastext service lets you access pages with one button push.

While you are in Teletext mode and Fastext is broadcast, a colour coded menu appears at the corresponding page

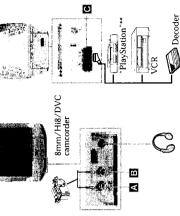
Connecting Optional Equipment

Using the following instructions, you can connect a wide range of optional equipment to your TV set. (Connecting cables are not supplied).

Connecting a VCR:

aerial and VCR" of this instruction To connect a VCR, please refer to lead, tune in the VCR test signal to manual programme, see page connect your VCR using a scart Preset" option. (for details how lead. If you do not have a scart to TV programme number "0". by using "Manual Programme manual. We recommend you the section "Connecting the

instruction manual to find out how to find the output channel Also refer to your VCR of your VCR. 11, step a).





If you have connected a decoder

GB

to a VCR which supports

Select the "Manual Programme Preset" option in the "Set Up" menu and after entering in the "Decoder" option, select "On" (by using Ψ or Φ) to each scrambled channel. Smartlink feature:

'This option is only available depending the country you have selected in the "Country" menu

- ** "PlayStation" is a product of Sony Computer Entertainment, Inc.
- * "PlayStation" is a trademark of Sony Computer Entertainment, Inc.

Using Optional Equipment

- 1 Connect your equipment to the designated TV socket, as indicated above.
- To watch the picture of the connected equipment, press the 🕙 button repeatedly until the correct input symbol appears on the screen.

Input Signals Symbol

- Audio / video input signal through the Scart connector 🖸 Ō
- RGB input signal through the Scart connector Q. This symbol appears only if a RGB source has been connected. (1)
- Video input signal through the phono socket ${\bf A}$ and Audio input signal through ${\bf B}.$ $\tilde{\varphi}$
- 3 Switch on the connected equipment.
- 4 Press O button on the remote control to return to the normal TV picture.

16 Additional Information

Teletext | 15

Additional Information 17

Specifications

Sound Output: • KV-21LT1K:	1 x 8 W (music power) 1 x 4 W (RMS Mono) • KV-14LTIK: 1 v 6 W (music power)	1 x 3 W (RMS Mono)	Power Consumption:	• KV-21LT1K: 55 W • KV-14LT1K: 42 W	Standby Power Consumption:	≤ 0.55 W	Dimensions (w x h x d):	• KV-21LT1K: Approx. 514 x 478 x 487 mm. • KV-14LT1K: Approx. 393 x 358 x 415 mm.
TV system: B/G/H, D/K	Colour system: PAL. SECAM NTSC 3.58, 4.43 (only Video In)	Channel Coverage:		CATV: S1-S20 HYPER: \$21-\$41		Picture Tube:	Flat Display FD Trinitron	Rear Terminals (→1/←) 21-pin scart connector

Accessories supplied: 1 Remote Control (RM-887) 2 Batteries (IEC designated) 1 Aerial (only for KV-14LT1K) Weight:
• KV-21LT1K: Approx. 24 Kg.
• KV-14LT1K: Approx. 11.5 Kg. (E-1/- 21-pin scart connector (CENELEC standard) including audio/video input, RCB input, TV audio/ video output.

Front Terminals
①2 video input - phono jack
② 2 audio input - phono jack
① 1 audio input - phono jack
① headphones jack

Other features:

Teletext, Fastext, TOPtext
 Sleep Timer
 Wake UP Timer
 Smartlink (direct link between your TV set and a compatible VCR. For more information on Smartlink, please refer to the Instruction Manual of your VCR).

 TV system Autodetection.

Design and specifications are subject to change without notice.

Ecological Paper- Totally Chlorine Free

Here are some simple solutions to the problems which may affect the picture and sound. **Troubleshooting**

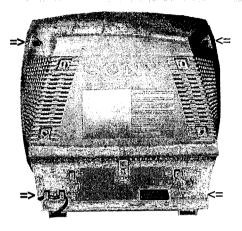
Problem	Solution
No picture (screen is dark) and no sound.	• Check the aerial connection. • Plug the TV in and press the \bigcirc button on the front of \square TV. • If the standby indicator \bigcirc is on, press $ / \bigcirc$ button on the remote control.
Poor or no picture (screen is dark). but good sound.	Using the menu system, select the "Picture Adjustment" menu and select "Reset" to return to the factory settings.
No picture or no menu information from the equipment connected to the Scart connector.	• Check that the optional equipment is on and press the button repeatedly on the remote control until the correct input symbol is displayed on the screen.
Good picture, no sound.	• Press the $\angle d + /-$ button on the remote control.
No colour on colour programmes.	Using the menu system, select the "Pirture Adjustment" menu and select "Reset" to return to factory settings.
Distorted picture when changing programmes or selecting teletext.	 Turn off any equipment connected to the Scart connector on the rear of the TV.
Picture slanted (only for KV-21LT1K)	 Using the menu system, select the "Picture Rotation" option in the "Advanced Features" menu to correct the picture slant.
Noisy picture when viewing a TV channel.	Using the menu system, select the "Manual Programme Preset" menu and adjust Fine Tuning (AFT) to obtain better picture reception. Using the menu system, select the "Noise Reduction" option in the "Advanced Features" menu and select "On" to reduce the noise in the picture.
Remote control does not function.	• Replace the batteries.
The standby indicator © on the TV flashes even though the "On Timer"	Contact to your nearest Sony service centre.

GB

In case of problems, have your TV serviced by qualified personnel. Never open the casing yourself.

SECTION 2 DISASSEMBLY

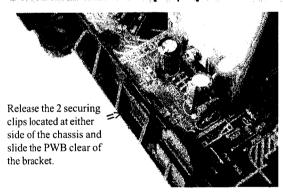
2-1. Rear Cover Removal



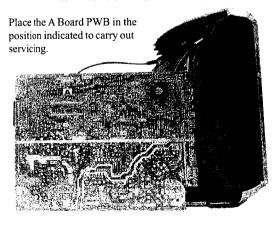
Release the mains power cable from its securing posts. Remove the rear cover fixing screws indicated. Pull the rear cover away from the front beznet until clear of chassis.

Note: Use a cross-head screwdriver with a blade length of at least 200mm.

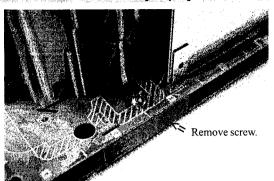
2-3. A Board PWB Removal [Step 2]

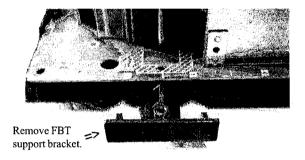


2-4. Service Position

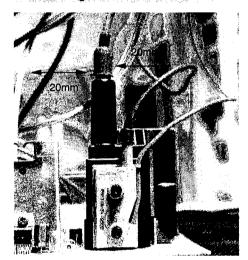


2-2. A Board PWB Removal [Step 1]





2-5. Wire Dressing

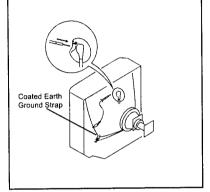


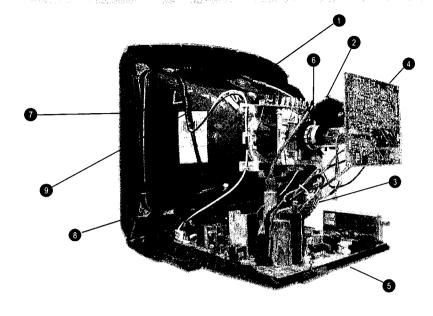
Ensure that all wires do not touch heat-sinks and high temperature hot spots. All wires must be kept at a minimum distance of 20mm away from the EHT lead.

2-6. Picture Tube Removal

WARNING: BEFORE REMOVING THE ANODE CAP

High voltage remains in the CRT even after the power is disconnected. To avoid electric shock, discharge CRT before attempting to remove the anode cap. Short between anode and CRT coated earth ground strap.





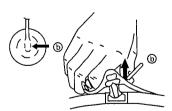
- 1. Discharge the anode of the CRT and remove the anode cap.
- 2. Release the EHT lead from its CRT support bracket.
- 3. Unplug all interconnecting leads from the Deflection yoke, degaussing coils and CRT grounding strap.
- 4. Remove the C Board from the CRT.
- 5. Remove the chassis assembly.
- 6. Loosen the Deflection yoke fixing screw and remove.
- 7. Place the set with the CRT face down on a cushion.
- Unscrew the four CRT fixing screws [located on each CRT corner] and remove the CRT.
- Remove the Degaussing Coils.
 Remove the CRT grounding strap and spring tentioners.
 [Take care not to handle the CRT by the neck.]

Removal of the Anode-Cap

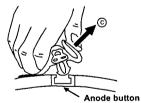
* REMOVING PROCEDURES.



1 Turn up one side of the rubber cap in the direction indicated by the arrow (a)



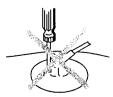
② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⑤

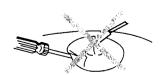


(3) When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow (c)

How to handle the Anode-Cap

- To prevent damaging the surface of the anode-cap do not use sharp materials.
- Do not apply too great a pressure on the rubber, as this may cause damage to the anode connector.
- A metal fitting called a shatter hook terminal is fitted inside the rubber cap.
- Do not turn the rubber foot over excessively, this may cause damage if the shatter hook sticks out.





SECTION 3 SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there are specific instructions to the contrary, carry out these adjustments with the rated power supply.
- Unless there are specific instructions to the contrary, set the controls and switches to the following settings:

 Contrast
 80% [or remote control normal]

 Brightness
 50%

Carry out the adjustments in the following order:

3-1. Beam Landing.

3-2. Convergence.

3-3. Focus.

3-4. White Balance.

1.

Note: Test equipment required.

Color bar/pattern generator.

2. Degausser.

3. Oscilloscope.

4. Digital multimeter.

Preparation:

- In order to reduce the influence of geomagnetism on the set's picture tube, face it in an easterly or westerly direction.
- 2. Switch on the set's power and degauss with the degausser.

3-1. Beam Landing

- Input an all white signal from the pattern generator. Set the Contrast and Brightness to normal.
- 2. Set the pattern generator raster signal to Red.
- 3. Move the deflection yoke forward and adjust with the purity control so that the Red is at the centre and the Blue and Green take up equally sized areas on each side of the screen. [See Fig.3-1 3-3].
- Move the deflection yoke backwards and adjust so that the entire screen becomes Red. [See Fig. 3-1]
- Switch the raster signal to Blue, then to Green and verify the condition.
- When the position of the deflection yoke has been determined, fasten the deflection yoke with the screws.
- If the beam does not land correctly in all the corners, use a magnet to correct it. [See Fig.3-4]

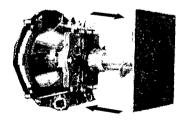


Fig. 3-1.

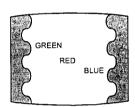
Caution:

High voltages are present on the Deflection yoke terminals - take care when handling the Deflection yoke whilst carrying out adjustments.





Fig. 3-3.



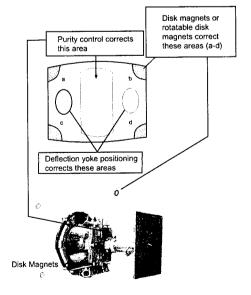


Fig.3-4

3-2. Convergence

Preparation:

- Before starting this adjustment, adjust the focus, horizontal size and vertical size.
- Minimize the Brightness setting.
- Input a dot pattern from the pattern generator.

Horizontal and Vertical Static Convergence

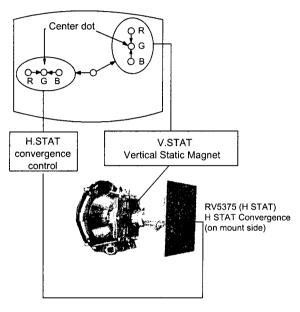
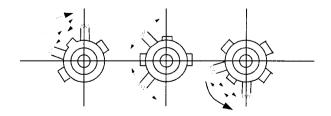


Fig.3-5

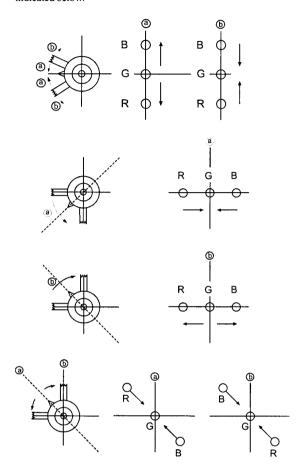
- [Moving horizontally], adjust the H.STAT control so that the Red, Green and Blue points are on top of each other at the centre of the screen.
- 2. [Moving vertically], adjust the V.STAT magnet so that the Red, Green and Blue points are on top of each other at the centre of the screen.
- If the H.STAT variable resistor is unable to bring the Red, Green and Blue points together at the centre of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V.STAT magnet in the manner indicated below.

[In this case, the H.STAT variable resistor and the V.STAT magnet influence each other].

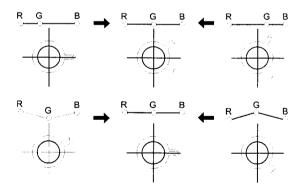
 Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.



 If the V.STAT magnet is moved in the direction of the (a) and (b) arrows, the Red, Green and Blue points move as indicated below.



Operation of the BMC (Hexapole) magnet.



The movement of the magnets interact with each other and so the respective dot position should be monitored while carrying out this adjustment.

Use the H.STAT VR to adjust the Red, Green and Blue dots so that they coincide at the centre of the screen

(by moving the dots in the horizontal direction).

Geometry Adjustment.

Preparation:

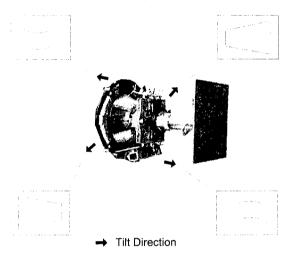
Before starting this adjustment, adjust the horizontal and vertical static convergence.

- 1. Remove the deflection yoke spacer.
- 2. Tilt the deflection yoke as indicated in the figure below and optimise the geometry.

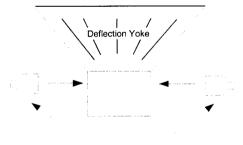
Tilting the DY Up and Down will balance the upper and lower pin adjustment.

Tilting the DY Left and Right will balance the H-Trap adjustment.

3. Re-install the deflection yoke spacer.

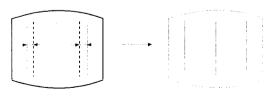


HTIL Adjustment



TLH pieces

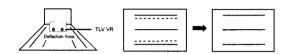
HTIL correction can be performed by adding a TLH correction assembly to the Deflection yoke.



YCH Adjustment

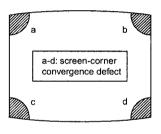


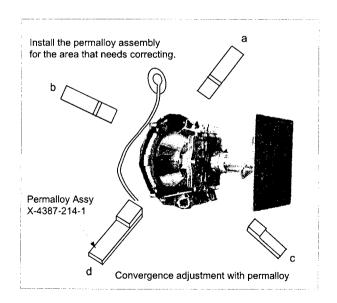
TLV Adjustment



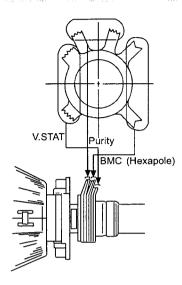
Screen Corner Convergence

If you are unable to adjust the corner convergence properly, this can be corrected with the use of permalloy magnets.



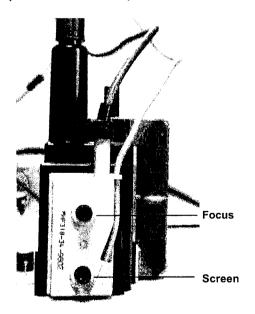


Layout of each control



3-3. Focus Adjustment

- 1. Receive a television broadcast signal.
- 2. Normalize the picture setting.
- Adjust the focus control located on the flyback transformer
 to obtain the best focus at the centre of the screen.
 Bring only the centre area of the screen into focus, the
 magenta-ring appears on the screen. In this case, adjust the
 focus to optimize the screen uniformly.



3-4. Screen (G2), White Balance

[Adjustment in the service mode using the remote commander]

G2 adjustment

- 1. Input a dot signal from the pattern generator.
- 2. Set the Picture, Brightness and Colour to minimum.
- Apply 175V DC from an external power supply to the R, G and B cathodes of the CRT.
- Whilst watching the picture, adjust the G2 control [SCREEN] located on the Flyback Transformer to the point just before the flyback return lines disappear.

White balance adjustment for TV mode

- 1. Input an all-white signal from the pattern generator.
- Enter into the 'Service Mode' by pressing 'TEST', 'TEST' and 'MENU' on the Service Commander.
- 3. Select 'Service' from the on screen menu display and press the right arrow button on the remote commander.
- 4. The 'Service' menu will appear on the screen. [See Page 18]
- 5. Set the 'Contrast' to MAX.
- 6. Set the 'R-Drive' to 25.
- Adjust the 'G-Drive' and the 'B-Drive' so that the white balance becomes optimum.
- 8. Press the 'OK' button to write the data for each item.
- 9. Set the 'Contrast' to MIN.
- Adjust the 'G-Cutoff', and the 'R-Cutoff' with the left and right buttons on the remote commander so that the white balance becomes optimum.
- 11. Press the 'OK' button to write the data for each item.

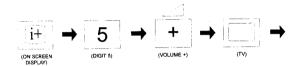
SECTION 4 CIRCUIT ADJUSTMENTS

4-1. Electrical Adjustments

Service adjustments to this model can be performed using the supplied Remote Commander RM-887(14LT1) or RM-889(14LM1).

How to enter into the Service Mode

- 1. Turn on the main power switch and enter into the stand-by mode.
- Press the following sequence of buttons on the Remote Commander.



- 'TT—' will appear in the upper right corner of the screen. Other status information will also be displayed.
- Press 'MENU' on the remote commander to obtain the following menu on the screen.

Geometry
Service
Design
Status
IF adjust
Error Menu
FE-2 Mono v1.12
Factory data 00h 00h

- Move to the corresponding adjustment item using the up or down arrow buttons on the Remote Commander.
- 5. Press the right arrow button to enter into the required menu item.
- Press the 'Menu' button on the Remote Commander to quit the Service Mode when all adjustments have been completed.

Note:

- Before performing any adjustments ensure that the correct model has been selected in the 'Model Setting' menu.
- After carrying out the service adjustments, to prevent the customer accessing the 'Service Menu' switch the TV set OFF and then ON.

SERVICE		
Offset-R Offset-G R-Drive G-Drive B-Drive Peak-Freq Luma-Delay SC0	(0, 15) (0, 15) (0, 63) (0, 63) (0, 63) (0, 3) (0, 15) (0, 3)	Adj Adj 25 Adj Adj 0 8
White-Peak Subcont Subright Subcol Subsharp Br OSD Br TXT	(0, 15) (0, 15) (0, 63) (0, 63) (0, 63) (0, 15) (0, 15)	15 Adj Adj Adj 31 11

GEOMETRY		
Left-HBlk Right-HBlk V-Angle V-Bow H-Centre H-Size Pin-Amp U-Corner-Pin L-Corner-Pin Pin Phase V-Linearity V-Size S-Correction V-Centre	(0, 15) (0, 15) (0, 63) (0, 63)	13 9 Adj Adj Adj Adj Adj Adj Adj Adj
V-Zoom	(0, 63)	25

ERROR MENU			
E02 E03 E04 E05	OCP OVP N/A VSYNC IKR	(0, 255) (0, 255) (0, 255) (0, 255)	0 0
E06 E07	IIC IIC NVM JUNGLE	(0, 255) (0, 255) (0, 255) (0, 255)	0
E08 E09 E10	TUNER SOUNDP	(0, 255) (0, 255)	0
E11 WORKING	8V	(0, 255)	0
TIME HOURS MINUTES			0

IF ADJUST		
AGC Adjust Automute	(0, 255) (0, 255)	0 1
Audio Gain	(0, 255)	0
L Gating	(0, 255)	1

Sub Brightness Adjustment

- 1. Input a Monoscope pattern.
- 2. Press 'TEST' 'TEST' 13 on the Remote Commander.
- 3. Adjust the 'Sub-Brightness' data so that there is barely a difference between the 0 IRE and 10 IRE signal levels.

Sub Contrast Adjustment

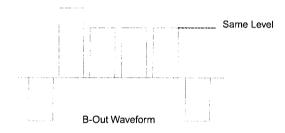
- Input a video signal that contains a small 100% white area on a black background.
- 2. Connect an digital voltmeter to Pin 10 of J701 [C Board].
- 3. Adjust the Sub-Contrast ['TT11'] to obtain a voltage of 95 +0,- 5V.

Sub Colour Adjustment

- 1. Receive a PAL colour bar signal.
- 2. Connect an oscilloscope to Pin 3 of CN504 [A Board].
- 3. Enter into the 'Service' service menu.
- 4. Adjust the 'Sub Colour' data so that the Cyan, Magenta and Blue colour bars are of equal levels as indicated below.

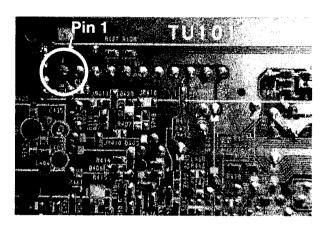
Note:

Ensure that no signal is applied to the Antenna socket while carrying out the following IF adjustments.



Tuner AGC Adjustment

- 1. Set the "AGC adjust" register value:
 - For destination France set the value to 6.
 - All other destinations set the value to 0.
- 2. Receive a signal of 64dBuV/75 ohm terminated [62dBuV/75] ohms for B model] via the tuner antenna socket.
- Connect a voltmeter to pin1 of TU101 [print side of A Board] or to the AGC pin of CN001 [mount side of A Board].
- 4. Confirm that the AGC voltage is 3.5 volts +/- 0.3 volts.
- 5. If adjustment is required, enter into the 'Test Menu'.
- 6. Select the 'AGC Adjust' menu item.
- Adjust the data using the left and right arrow buttons on the Remote Commander to obtain a voltage of 3.5V +/- 0.3V.

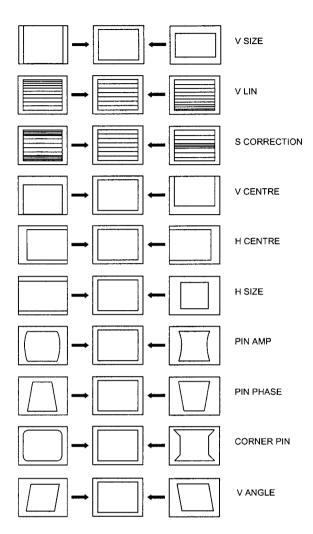


[Print side of A board]

Deflection System Adjustment

- . Enter into the 'Geometry' service menu.
- 2. Select and adjust each item in order to obtain the optimum image.

GEOMETRY		
Left-HBlk Right-HBlk V-Angle V-Bow H-Centre H-Size Pin-Amp U-Corner-Pin L-Corner-Pin Pin Phase V-Linearity V-Size S-Correction V-Centre V-Zoom	(0, 15) (0, 63) (0, 63)	13 9 Adj Adj Adj Adj Adj Adj Adj Adj 25

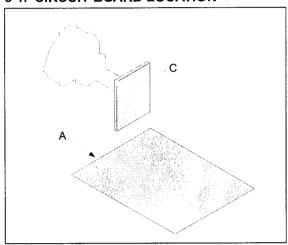


4-2. TEST MODE 2:

Is available by pressing the 'TEST' button twice, OSD 'TT' appears. The functions described below are available by selecting the two numbers. To release the 'Test mode 2', press 00, 10, 20 ... twice or switch the TV set into Stand-by mode. In 'TT Menu' mode, it is possible to remove the Menu from the screen by pressing the Speaker Off button once. Pressing the Speaker OFF button a second time will cause the Menu to reappear. The function is kept even when the menu is not displayed on screen !!.

00	'TT' mode off
01	Picture maximum
02	Picture minimum
03	Set speaker/headphone Volume to 35%
04	Set speaker/headphone Volume to 50%
05	Set speaker/headphone Volume to 65%
06	Set speaker/headphone Volume to 80%
07	Ageing mode
08	Shipping Condition
11	Sub picture adjustment
12	Sub colour adjustment
13	Sub Brightness adjustment
14	Text H Position adjustment
15	Picture Rotation Test
16	Picture level 50%
19	Toggle Factory Mode
21	Destination ADE
22	Destination BL
23	Destination ADE
24	Destination U
25	Destination ADE
26	Destination BL
27	Destination KR
28	Destination KR
31	Auto Sutoff Disable/Enable
33	Rotation ON/OFF
35	No Function
36	No Function
38	Enter G2 Adjustment
41 42	Re-initialise NVM (Prog 59)
48	Re-initialise geometry (Prog 59)
49	Set NVM as non virgin (Prog 59) Set NVM as virgin (Prog 59)
61	Set NVM as virgin (Prog 59) Auto AGC adjustment
63	No Function
64	Enable/disable RGB priority
65	RGB auto-detect enable/disable
66	On timer enable/disable
67	Manual AGC adjustment
68	Enable/disable X26 countermeasure (N problem)
71	Force PAL video (Factory Use Only)
72	Un-force PAL(restore normal video condition)
87	Local keys test
88	No Function
89	Enable/disable watchdog
99	Display Error and Working Time menu

5-1. CIRCUIT BOARD LOCATION



5-3. SCHEMATIC DIAGRAMS AND **PRINTED WIRING BOARDS**

Note:

- All capacitors are in µF unless otherwise noted.
- pF: µµF 50WV or less are not indicated except for electrolytic types.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5mm

Electrical power rating: 1/4W

- Chip resistors are 1/10W

All resistors are in ohms. k = 1000 ohms, M = 1000,000 ohms

: nonflammable resistor.

: fusible resistor.

 \triangle : internal component.

: panel designation or adjustment for repair.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in Volts. Readings are taken with a 10Mohm digital mutimeter.
- Readings are taken with a color bar input signal.
- Voltage variations may be noted due to normal production tolerences.

: B + bus.

: B - bus.

: RF signal path.

: earth - ground.

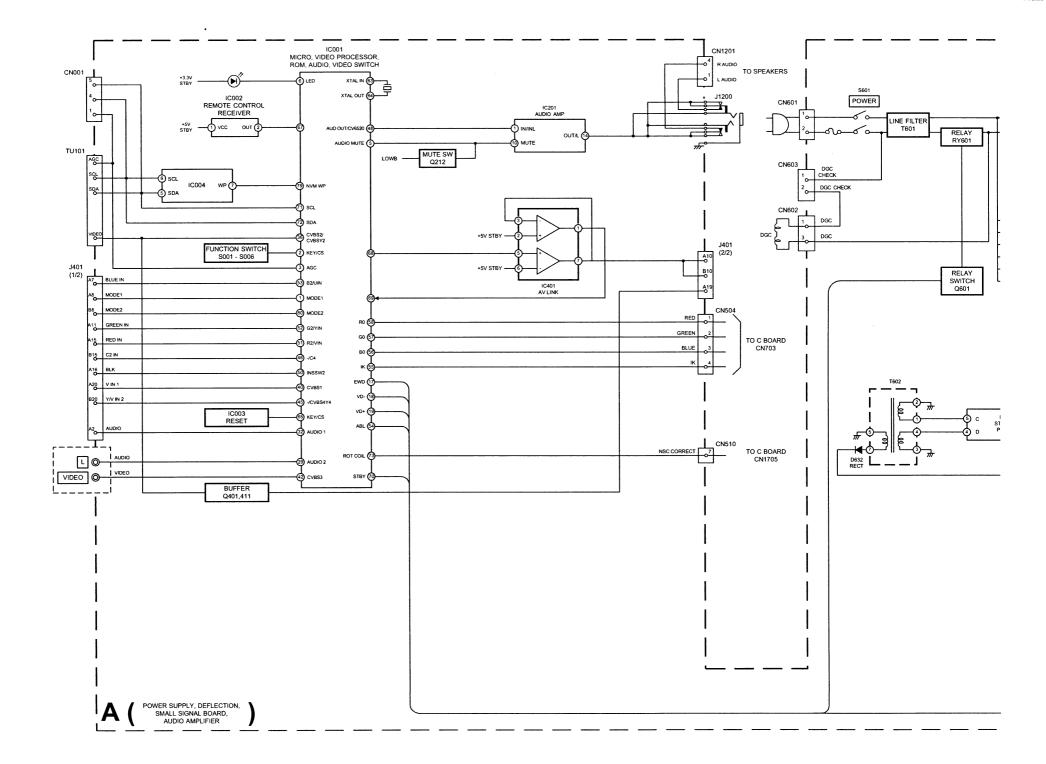
: earth - chassis.

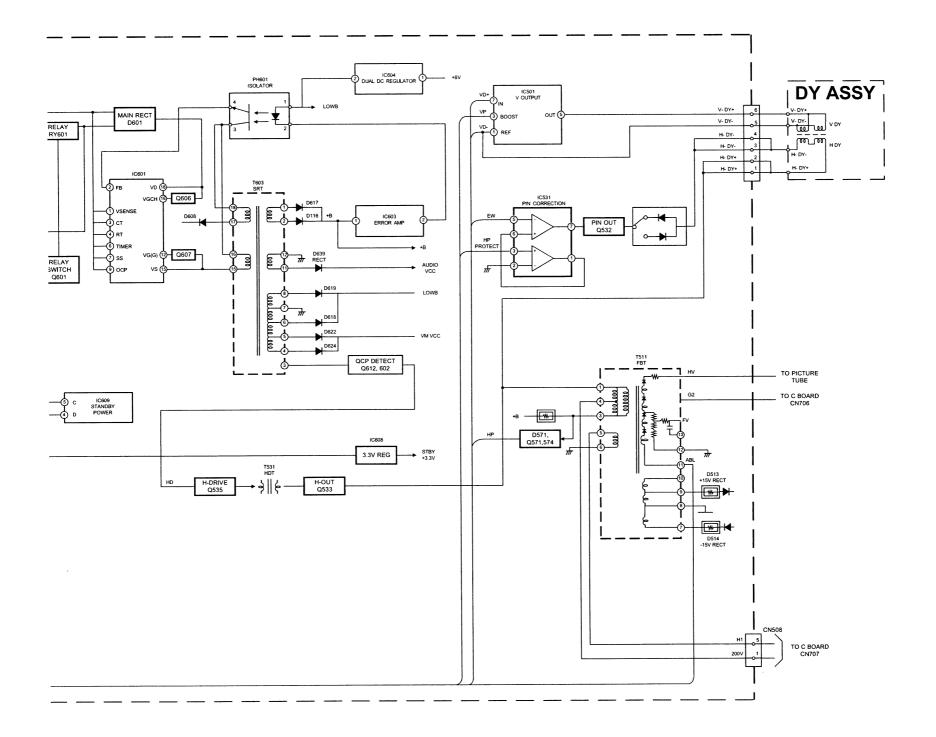
Reference Information

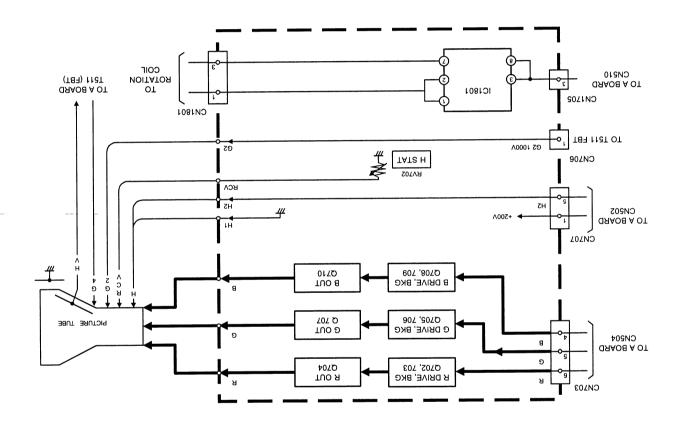
RESISTOR	RN	: METAL FILM
	RC	: SOLID
	FPRD	: NON FLAMMABLE CARBON
	FUSE	: NON FLAMMABLE FUSIBLE
	RS	: NON FLAMMABLE METAL OXIDE
	RB	: NON FLAMMABLE CEMENT
	RW	: NON FLAMMABLE WIREWOUND
	<u>%</u>	: ADJUSTMENT RESISTOR
COIL	LF-8L	: MICRO INDUCTOR
CAPACITOR	TA	: TANTALUM
	PS	: STYROL
	PP	: POLYPROPYLENE
	PT	: MYLAR
	MPS	: METALIZED POLYESTER
	MPP	: METALIZED POLYPROPYLENE
	ALB	: BIPOLAR
	ALT	: HIGH TEMPERATURE
	ALR	: HIGH RIPPLE

Note: The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

Note: Les composants identifiés par une trame et par une marque Δ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié. specified.

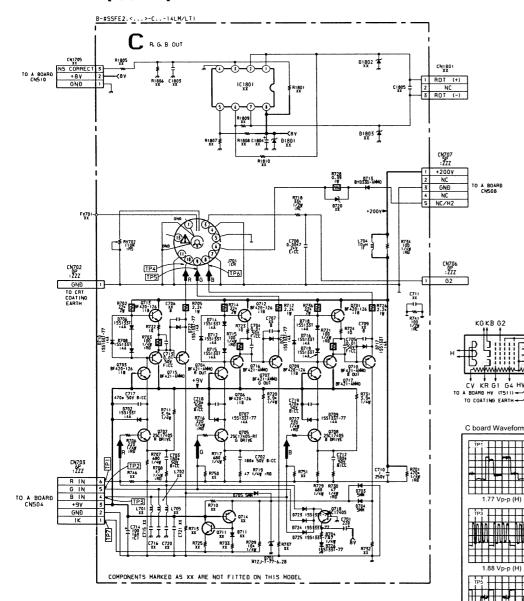


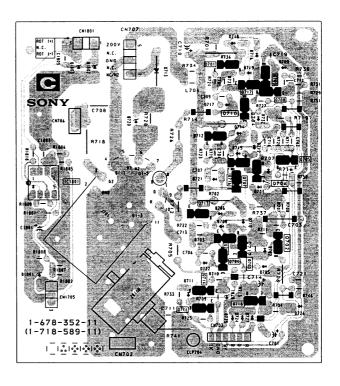




C [R, G, B OUT]

[C PRINTED WIRING BOARD]



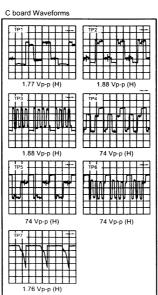


C board Semiconductor Voltage Table

Ref	(e)	(b)	(c)	Ref	(e)	(b)	(c)	Ref	(e)	(b)	(c)
Q701	124.2	124.8	202	Q706	7.5	8.1	125.0	Q712	125.8	126.4	201.9
Q702	2.3	3.0	7.5	Q707	124.6	125.8	5.5	Q713	133.0	132.4	201.9
Q703	7.5	8.1	131.6	Q708	3.5	2.1	7.5	Q715	132.3	131.5	8.1
Q704	131	132.4	5.2	Q709	7.5	8.1	123.3	Q716	125.8	125.0	8.1
Q705	2.5	3.1	7.5	Q710	123.0	124.3	5.5	Q717	124.2	123.4	8.1

C heard IC Voltage Table

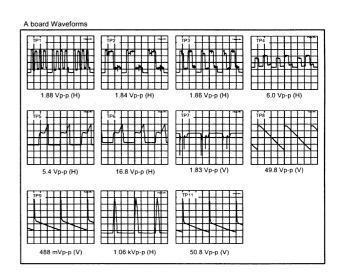
board ic voltage rat						
IC	Voltage	Table				
Ref No	Pin No	Voitage (V)				
	1	1.3				
	2	1.3				
	3	1.4				
IC1801	5	4.1				
	6	4.1				
	7	7.0				
	8	8.0				



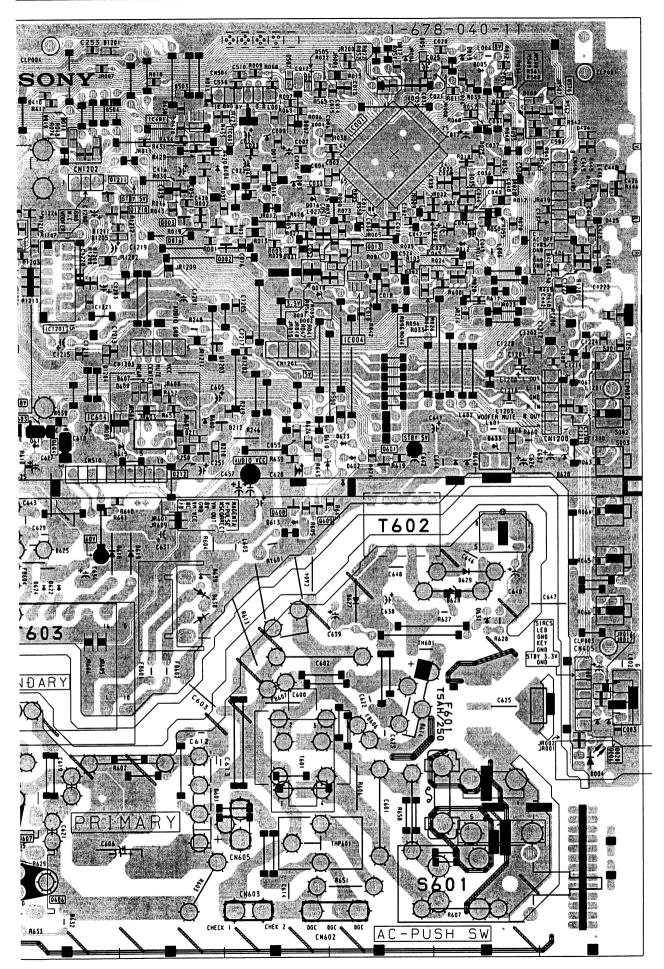
KG KB G2

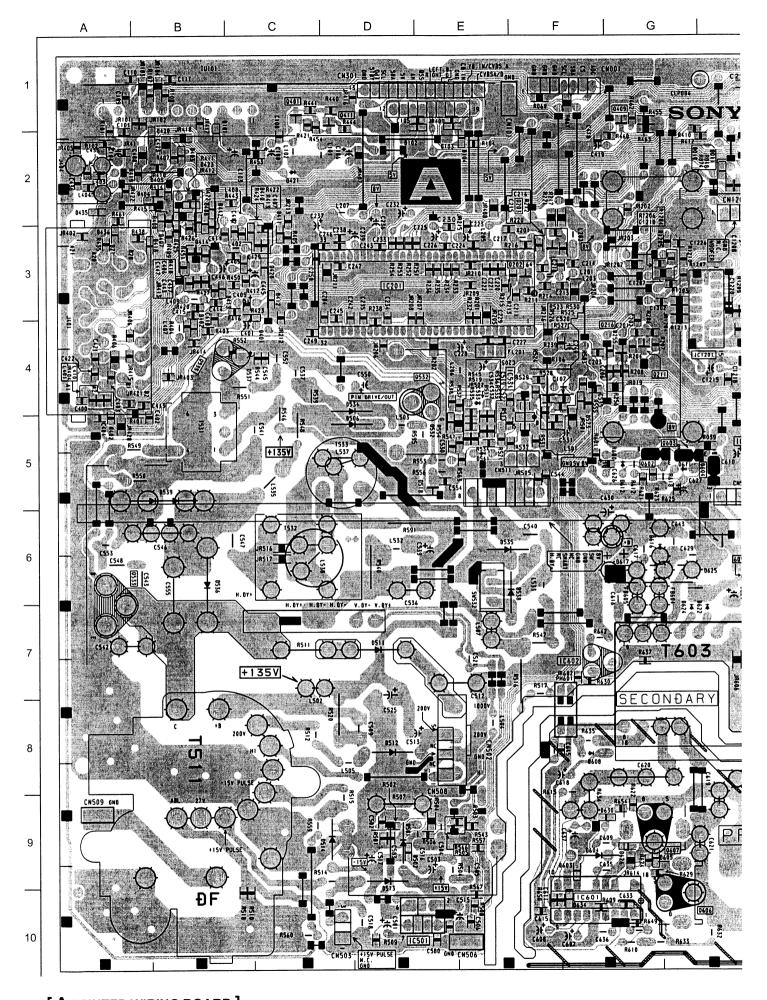
CV KR GI G4 HV

TO COATING EARTH

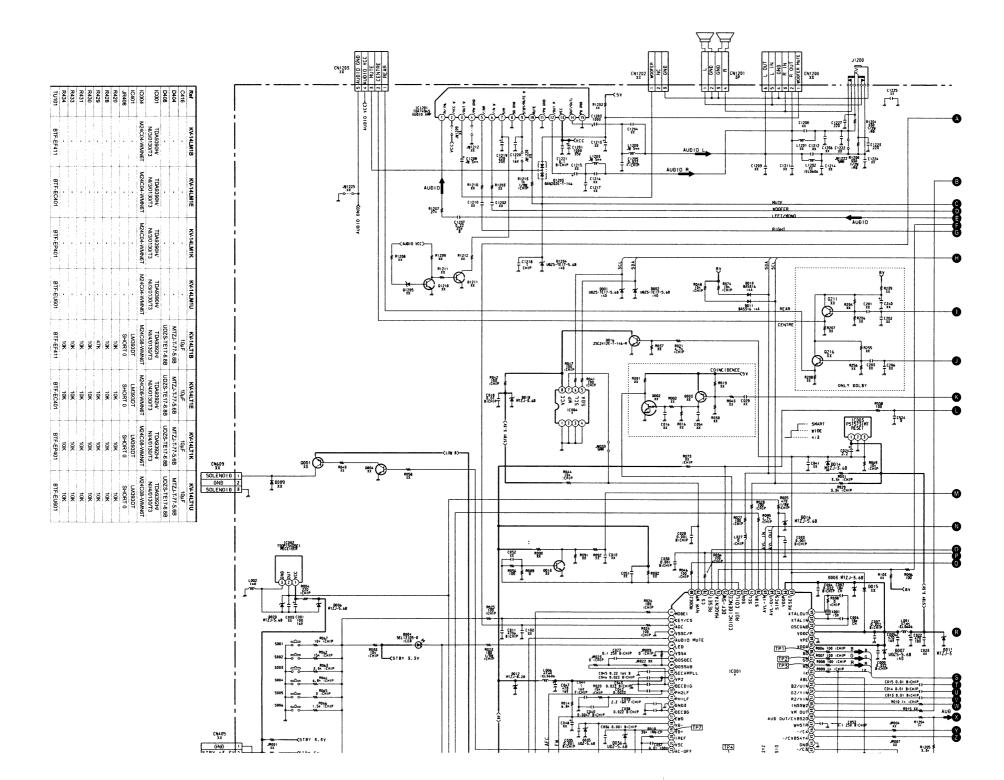


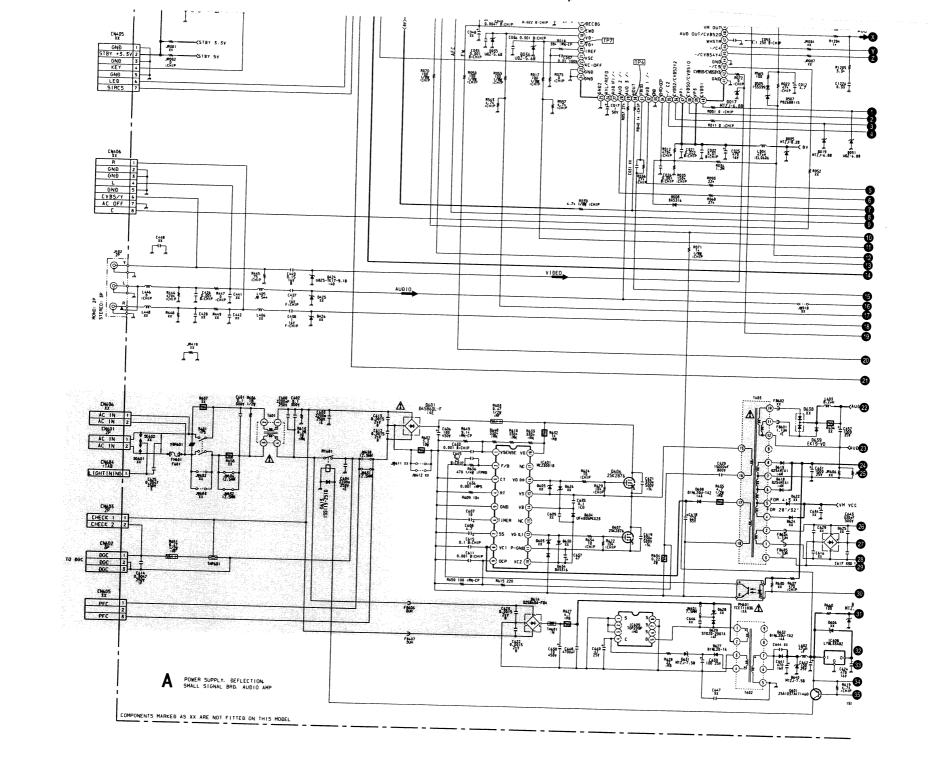
| H | I | J | K | L | M |

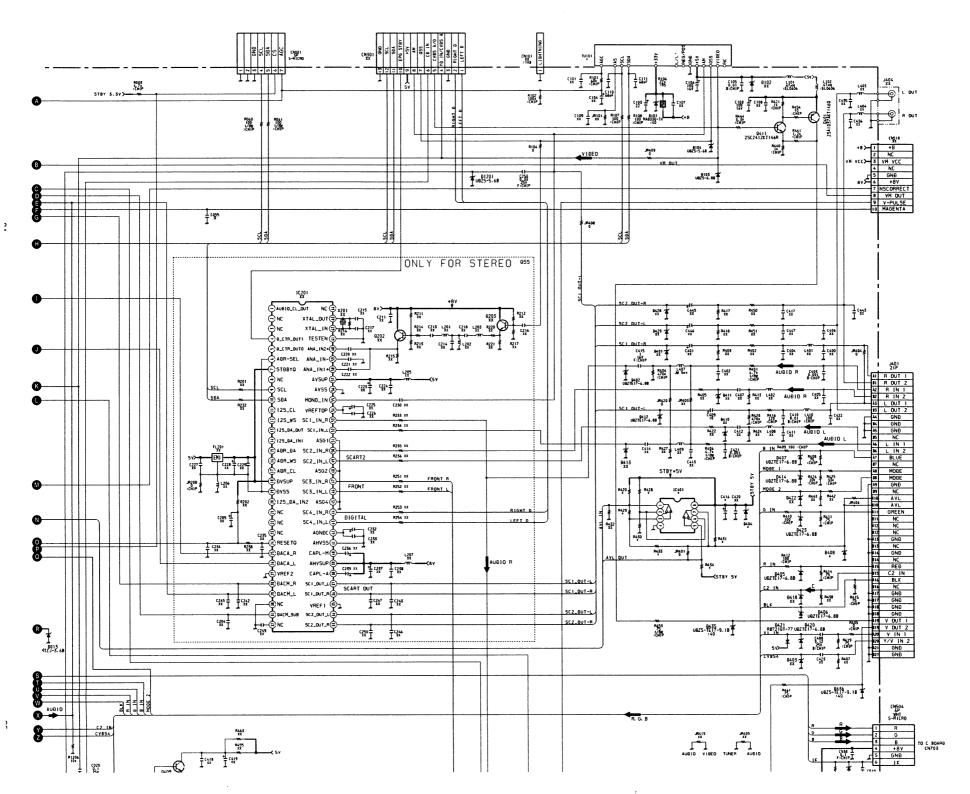


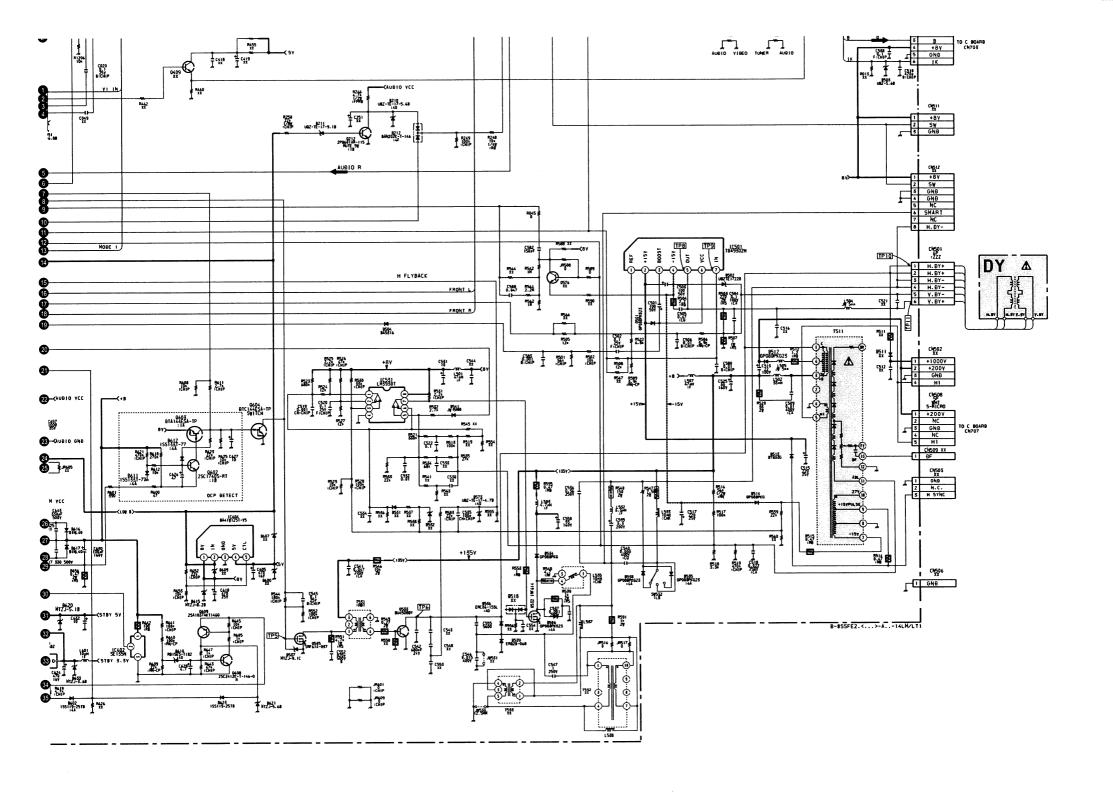


[A PRINTED WIRING BOARD]









A board IC Voltage Table

		IC Volta	ge Table	i,	
Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)
	1	0		67	4.8
	2	3.2		68	0.4
	3	2.9	ĺ	69	0
	5	0		70	0
	6	2.0		71	0
	8	2.3		72	0
	9	8.0		73	7.1
	10	5.0	IC001	74	5.0
	12	0		75	8.1
	13	0		76	-3.5
	14	4.0		77	0
	16	1.4		78	3.2
	17	1.5		79	3.2
	18	0		80	0
	19	0		1	0.3
	20	3.8		3	-12.6
			IC501	5	0.2
	21	3.8	10001	6	13.9
	22	5.0			0.3
	26	0		7	-
	28	3.5	İ	1	1.4
	29	3.6		2	2.3
	30	1.9	IC531	3	1.8
	31	0.3		5	2.4
IC001	32	3.6		6	1.6 6.4
	34	1.9		7	-80.4
	35	3.9	-	2	-80.5
	38	1.8	ł	3	-80.2
	40	3.3	1	4	-80.2
	42	3.3	1	5	-81.5
	43	1.4	1	6	-81.6
	45	0	1	7	-77.8
	46	0	IC601	9	-81.8
	47	3.6	1	10	-76
	48	2.8]	11	-81.9
	49	2.3		12	-79.4
	50	0.2]	14	16.5
	51	2.5	1	15	11
	52	2.5	1	16	14.4
	53	2.5		18	86.4
	54	2.1	_	1	11
	55	5.2	-	3	4.9
ļ	56	3.0	4	5	0
	57	3.1	-	6	11.3
	58	3.1	IC1201	7	0.3
	59	3.2	+	10	0.3
	62	0	-	12	0
	63	0	-	14	11.35
1	65	0			1

A board Semiconductor Voltage Table

Ref	(e)	(b)	(c)	Ref	(0)	(b)	(c)
Q013	0	0.7	0	Q604	0	0	2.5
Q016	0	0	3.3	Q608	0	0	5.6
Q212	0	0.7	0	Q609	5.6	5.6	0
Q401	4.8	4.2	1.8				
Q411	1.1	1.7	4.2	Ref	(s)	(g)	(d)
Q601	5.6	4.8	5.3	Q606	10.9	14.5	86.7
Q602	14.2	5.1	8	Q607	-82.4	-79.9	10.9
Q603	8	8	0	Q535	0	2.5	95.2

A board Location Table

DIODE		D435	A - 2	D634	F - 10
D001	J - 2	D436	A - 3	D639	1-6
D002	J - 4	D501	D-9	D640	L-5
D003	J - 2	D502	D-9	D1201	H-1
D004	M - 8	D503	1 - 1	D1203	1-4
D006	M - 8	D504	H - 2	D1204	H - 4
D007	J - 2	D505	J - 1	. 1	С
D008	L - 1	D506	D - 5	IC001	K - 2
D010	G - 2	D507	J - 1	IC002	M - 8
D011	H - 2	D512	D - 8	IC003	1-2
D012	J - 2	D513	D - 9	IC004	K - 4
D013	M - 8	D514	C - 9	IC401	I - 2
D014	M - 8	D534	D - 4	IC501	D - 10
D016	J - 2	D535	E - 6	IC531	E - 4
D017	L - 1	D536	B - 6	IC601	F - 10
D018	G - 2	D537	C - 4	IC602	F-7
D019	L - 1	D538	F - 6	IC604	H - 5
D020	M - 8	D539	B - 5	IC608	L-6
D035	L - 2	D573	F - 5	IC609	L-6
D036	L - 2	D601	1 - 9	IC1201	H - 4
D051	K - 1	D602	K - 5	TRAN	SISTOR
D101	B - 1	D604	F-9	Q013	K - 3
D103	E - 2	D610	J - 5	Q016	I - 3
D104	E - 2	D611	G - 5	Q212	1 - 5
D210	I - 5	D612	G - 5	Q401	C - 1
D211	1 - 5	D613	J - 6	Q411	D - 1
D212	I - 5	D614	K - 8	Q532	D - 4
D402	B - 2	D615	H - 5	Q533	A - 6
D404	1 - 2	D616	G - 6	Q535	B - 4
D405	B - 2	D617	G - 6	Q601	K - 5
D406	B - 2	D618	H - 6	Q602	G - 5
D407	B - 3	D619	H - 6	Q603	G - 5
D408	B - 2	D620	M - 5	Q604	G - 5
D412	C - 3	D621	J - 5	Q606	G - 10
D414	B - 3	D623	J - 5	Q607	G - 9
D420	B - 1	D627	K - 7	Q608	J - 6
D421	C - 2	D631	L - 6	Q609	J - 6
D423	B - 2	D632	L - 5		
D424	M - 2	D633	L-5	L	



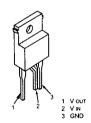
NOTE:
Portions of the circuit marked as shown are high voltage areas. Use care to prevent electric shock during inspection or repair.

5-4. SEMICONDUCTORS

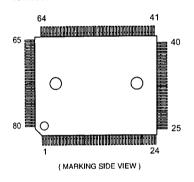
LM393DT TDA2822M TEA2124



SE-135N SE135N-LF12



TDA9392H



TOP209P



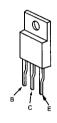
BF421-AMMO 2SA1091-O



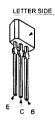
DTA144ESA DTA144ESA-TP DTC114EKA DTC114EKA-T146 DTC143TKA-T146 DTC144EKA-T-146R 2SA1037K-T-146-R R2SA1162-G 2SA1037K-T-146-QR 2SD601A-QTX 2SC1623-L5-L6 2SC2412K-QR 2SC2412K-T-146-R



IRF614-LF



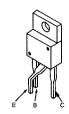
2SA933AS-QRT 2SAG33ASQT 2SA933AS-RT 2SC1740S-RT



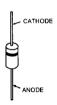
2SC2785-HFE



2SK2251-01-F19



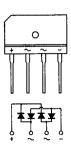
AK04-V1 AU-01Z-V1 BYD33G BYD33G-AMMO DINL20-U-TA2 DINL40-U-TR2 ERB44-06TP1 EGP20G EG-1Z-V1 EL1Z ERD28-06S ERD28-06S ERC06-15SL FMN-G12S GP08DPKG23 RG1CLF-B1 RGP10GPKG23 RU-3AM RU3YX-LF-C4 RU3YX-V1 RU-4AM-T3 1SS292T-77



DAN202K DAN202K-T146



D4SB60L-F



ERA81-004TP1 MTZJ-T-77-15B ERA83-006 MTZJ-T-77-33A MTZJ-3.6A MTZJ-T-77-2.2A MTZJ-33C MTZJ-7.5B RD3.9ES-B2 HZS9.INBZ MTZJ-T-77-3.6B RD5.6ESB2 MTZJ-T-77-5.6B RD6.8ES-B2 MTZJ-T-77-5.6C RD7.5ESB2 RD9.1ES-B3 MTZJ-T-77-6.8A MTZJ-T-77-6.8C RD10ESB2 RD15ESB2 MTZJ-T-77-8.2B 1SS119-25TD MTZJ-T-77-7.5B 1SS133T-77 MTZJ-T-77-9.1A MTZJ-T-77-9.1C MTZJ-T-77-10



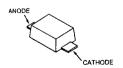
SLA-570KT3F



1SS355TE-17 RD12SB2 UDZS-TE-17-4.7B UDZS-TE-17-5.6B UDZS-TE-17-6.8B UDZS-TE-17-9.1B UDZ-TE-17-22B

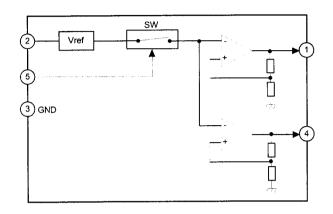


UF4005PKG23

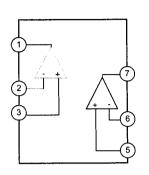


5-5 IC BLOCK DIAGRAMS

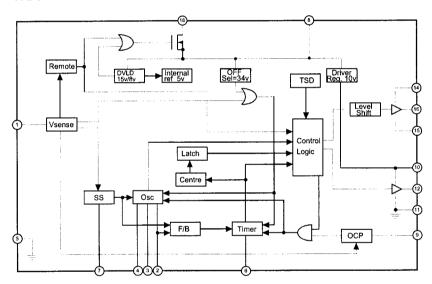
A BOARD IC604 BA41W12ST



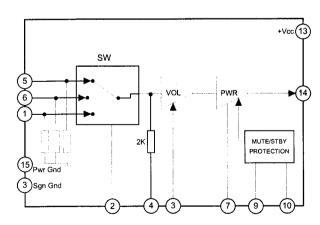
A BOARD IC401/IC531 LM393TD



A BOARD IC601 MCZ3001D



A BOARD IC1201 TDA7494



SECTION 6 EXPLODED VIEWS

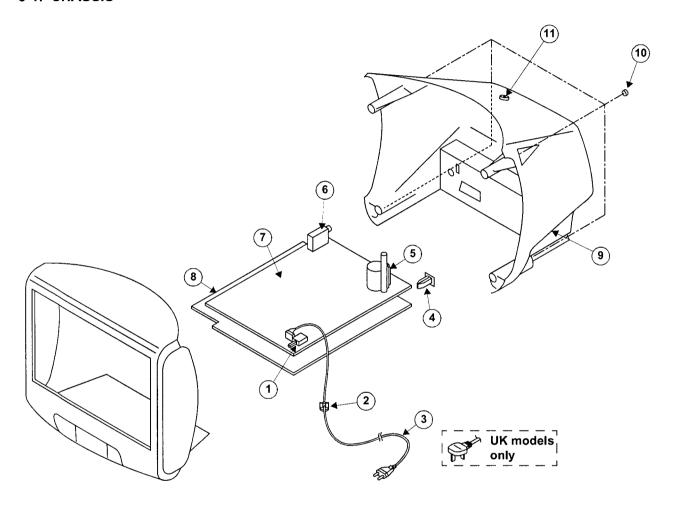
NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Note: Les composants indentifies par une trame et par une marque △ sonte d'une importance critique pour la securite. Ne les remplacer que par des pieces du numero specifie.

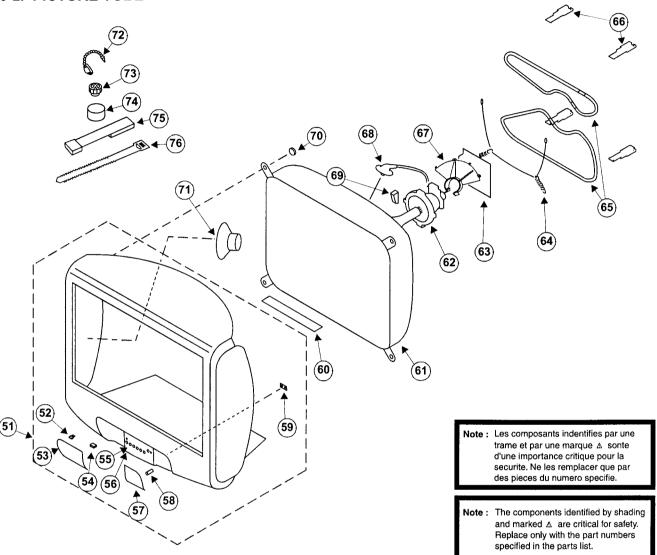
Note: The components identified by shading and marked ∆ are critical for safety. Replace only with the part numbers specified in the parts list.

6-1. CHASSIS



REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
1 A	1-571-433-2	1 SNITCH, POSE (AC	POWER)	7	*A-1632-901-A	A BOARD, COMPLETE	(KV-14LM1B)
2	*4-202-531-0	1 AC CORD LOCK (SC)		*A-1632-891-A	A BOARD, COMPLETE	(KV-14LM1E)
3 Д	1=765=286=1	1 CORD POWER LINE	IALMIB/IAIMIE/IALMIK		*A-1632-902-A	A BOARD, COMPLETE	(KV-14LM1K)
Marie de la companie		a satu	14LT1B/14LT1E/14LT1K)		*A-1632-903-A	A BOARD, COMPLETE	(KV-14LM1U)
۰.۸		A STATE OF THE REAL PROPERTY AND ADDRESS OF THE PARTY AND ADDRESS OF TH	er: (KV-141M1B/141T1B/		*A-1632-895-A	A BOARD, COMPLETE	(KV-14LT1B)
1 20 1 20 1 20 1 20	4.0		: KV-141M1U/14LT1U)		*A-1632-886-A	A BOARD, COMPLETE	(KV-14LT1E)
4	*4-204-517-0	2 SUPPORT, FBT (KV	-14LM1/14LT1B/14LT1E)		*A-1632-896-A	A BOARD, COMPLETE	(KV-14LT1K)
	*4-204-517-0	1 SUPPORT, FBT (KV	-14LT1K/14LT1U)		*A-1632-897-A	A BOARD, COMPLETE	(KV-14LT1U)
5 A	1-453-347-1	1. Transformer assy	;:FLYBACK (NX-1747//U2A4)	8	*4-204-143-02	BRACKET, MAIN	
6	8-598-535-0		11(KV-14LM1B/14LT1B)	9	4-205-378-11	REAR COVER (KV-14)	M1)
	8-598-531-0	0 FRONTEND BTF-EC4	01 (KV-14LM1E/14LT1E)		4-205-378-01	REAR COVER (KV-14)	JT1)
	8-598-537-0	0 FRONTEND BTF-EP4	01 (KV-14LM1K/14LT1K)	10	7-685-663-79	SCREW +BVTP 4X16	TYPE 2 IT-3
	8-598-527-0	0 FRONTEND BTF-EU6	01 (KV-14LM1U/14LT1U)	11	4-203-090-01	TERMINAL ANTENNA	

6-2. PICTURE TUBE



REF. NO.	PART.NO	DESCRIPTION		REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
51	X-4200-589-1	BEZNET ASSY (F	(V-14LM1)	52, 55-59	63	*A-1632-885-A	C BOARD, COMPLETE	
	X-4200-588-1	BEZNET ASSY (F	(V-14LT1)	52-59	64	4-369-318-21	SPRING, TENSION	
52	4-047-464-01	CATCHER, PUSH			65	1-419-548-11	COIL, DEGAUSSING	F 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
53	4-205-372-01	DOOR CONTROL (F	(V-14LT1)		66	*4-205-377-01	DGC HOLDER	
54	4-205-373-01	SHAFT DOOR (F	(V-14LT1)		67	*4-203-097-01	HOLDER, HV	
55	4-205-376-01	MULTI BUTTON			68 - ∴ Δ	1-540-007-13	CAP ASSY, HIGH VO)LTAGE
56	4-205-550-01	COVER MULTI BUTT	on		69	4-074-601-01	SPACER, DY	
57	4-205-380-01	BUTTON, POWER (K	(V-14LM1)		70	4-365-808-01	SCREW (5), TAPPIN	IG
	4-205-374-01	BUTTON, POWER (K	(V-14LT1)		71	1-529-711-11	SPEAKER, (8CM)	
58	4-204-426-01	SPRING			72	4-308-870-00	CLIP, LEAD WIRE	
59	4-205-375-01	GUIDE, LIGHT			73	1-452-094-00	MAGNET, ROTATABLE	DISK; 15MM Ø
60	4-203-128-01	SHEET, BLOTTING			74	1-425-032-00	MAGNET, DISK; 10M	m ø
61 🗥	8-735-570-05	PICTURE TUBE (AS	4LRG70X)	6.0	75	X-4387-214-1	PERMALLOY ASSY, C	ORRECTION
62 A	- 48-451-401-21	DEFLECTION YOKE	(Y14RSA-1) - 1	76	3-701-007-00	BAND, BINDING	

SECTION 7 ELECTRICAL PARTS LIST

PARTS LISTING TABLE OF CONTENTS

		Page
		<u>age</u>
C BOARD COMPLETE Parts List:		43
A BOARD COMMON Parts List :	Parts common to all models listed in this manual	44
A BOARD VARIANT Parts List :	Parts that belong only to the model specified	
<u>Model</u>		
KV-14LM1		50
KV-14LT1		50
MISCELLANEOUS:		51
ACCESSORIES AND PACKAGING	MATERIALS:	51

Note: Refer to the designated variant parts list when seeking a part indicated by an asterisk (*) Parts indicated (XX) on the Schematic Diagram are not used in this model and therefore do not appear in the Parts List.

The components identified by shading and marked ∆ are critical for safety Replace only with the part number specified.

REF. NO.	PART.NO	DESCRIPT	TON	REMARK	REF. NO.	PART.NO	DESCRIPTION	l		REMARK
*A-16	32-885-A C	Board, C	omplete		D726	8-719-991-33	DIODE 1SS133T	-77		
	< CAPACIT	OR >				< SOCKET	>			
C701	1-126-934-11	ELECT	220UF	20.00% 16V	J701	A 1-251-595-11	SOCKET; CRT.	565		
C702	1-102-109-00	CERAMIC	180PF	10.00% 50V						
C703	1-102-109-00	CERAMIC	180PF	10.00% 50V		< COIL >				
C704	1-101-004-00	CERAMIC	0.01UF	50V						
C705	1-101-004-00	CERAMIC	0.01UF	50V	L704	1-414-183-41	INDUCTOR	10UH		
C708	1-162-114-00	CERAMIC	0.0047UF	2KV		< TRANSIS	TOR >			
C710	1-107-957-11	ELECT	1UF	20.00% 250V						
C712	1-102-109-00	CERAMIC	180PF	10.00% 50V	Q701	8-729-046-28	TRANSISTOR BE	420-12	6	
C713	1-101-004-00	CERAMIC	0.01UF	50V	Q702	8-729-119-78	TRANSISTOR 25	C1740S	-RT	
C714	1-104-665-11	ELECT	100UF	20.00% 16V	Q703	8-729-046-28	TRANSISTOR BE	420-12	6	
					Q704	8-729-200-17	TRANSISTOR BE	421-AM	MO	
C717	1-102-114-00	CERAMIC	470PF	10.00% 50V	Q705	8-729-119-78	TRANSISTOR 25	C1740S	-RT	
C718	1-102-114-00	CERAMIC	470PF	10.00% 50V						
C719	1-102-114-00	CERAMIC	470PF	10.00% 50V	Q706	8-729-046-28	TRANSISTOR BE	420-12	6	
					Q707	8-729-200-17	TRANSISTOR BE	421-AM	MO	
	< CONNECT	OR >			Q708	8-729-119-78	TRANSISTOR 25	C1740S	-RT	
					Q709	8-729-046-28	TRANSISTOR BE	420-12	6	
CN702	1-695-915-11	TAB (CONTA	CT)		Q710	8-729-200-17	TRANSISTOR BE	421-AM	MO	
CN703	*1-564-509-11		•							
CN706	1-695-915-11				0712	8-729-046-28	TRANSISTOR BE	420-12	6	
CN707	*1-564-508-11				0713		TRANSISTOR B			
CHIOI	1 301 300 11	1200, 001			0715	8-729-200-17	TRANSISTOR BI	7421-AM	MO	
	< DIODE >				0716		TRANSISTOR BI			
	(DIODE /	,			Q717		TRANSISTOR BI			
D701	8-719-109-93									
D702	8-719-991-33				Q718	8-729-119-78	TRANSISTOR 2	SC1/40S	-RT	
D703	1-535-303-00									
D704	1-535-303-00					< RESIST	OR >			
D705	1-535-303-00	LEAD, JUMP	PER (5.0MM)		R701	1-247-895-91	CARBON	470K	5%	1/4W
D706	8-719-991-33	100 1001	33T_77		R702	1-215-900-11		22K	5%	2W
D706	8-719-991-33				R703	1-249-405-11		100	5%	1/4W
D707	8-719-991-33				R704	1-249-401-11		47	5%	1/4W
D708	8-719-991-33				R705		METAL OXIDE			1W
D709	8-719-991-33					1 220 0.1 11			••	-
D710	9-113-331-33	DIODE 1991	.551-11		R706	1-247-815-91	CARBON	220	5%	1/4W
D710	8-719-991-33	DTODE 1001	22m_77		R707	1-247-827-91		680	5%	1/4W
D712	8-719-991-33				R708	1-249-401-11		47	5%	1/4W
D713					R709	1-249-429-11		10K	5%	1/4W
D714	8-719-991-33				R711	1-247-845-91		3.9K		1/4W
D715 D716	8-719-991-33 8-719-991-33				K/11	1-247-043-31	CARBON	J . JK	J*	1/ 10
מונט	0-113-331 33	DIODE 1883	.551 11		R712	1-215-871-11	METAL OXIDE	2.2K	5%	1W
D717	8-719-991-33	DIODE 1SS1	133T-77		R714	1-215-900-11	METAL OXIDE	22K	5%	2W
D718	8-719-991-33				R715	1-249-405-11	CARBON	100	5%	1/4W
D719	8-719-991-33				R716	1-247-815-91	CARBON	220	5%	1/4W
D721	8-719-991-33				R717	1-247-827-91	CARBON	680	5%	1/4W
D722	8-719-991-33					·				
UILL	0 ,25 552 55				R718	1-202-814-11	SOLID	33K	10%	1/2W
D723	8-719-991-33	DIODE 1991	133T-77		R719	1-249-401-11		47	5%	1/4W
D724	8-719-991-33				R720	1-247-845-91		3.9K		1/4W
	8-719-991-33				R721	1-249-405-11		100	5%	1/4W
D725	0-112-231-33	DIONE 1991	FOOT: 11							-4 ···

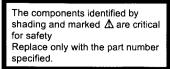
CA

	REF. NO.	PART.NO	DESCRIPTION	N	REMARK	REF. NO.	PART.NO	DESCRIPTIO	N	RE	MARK
# 1-249-193-11 CABBON	R722	1-249-393-11	CARBON	10 5	% 1/4W	C022	1-126-925-11	ELECT	470UF	20.00%	10V
## 1-215-91-11 CREATIC CIDE 0 2.8 \$ 1 N	R723	1-249-393-11	CARBON	10 5	% 1/4W	C024	1-126-961-11	ELECT	2.2UF	20.00%	50V
RT27	R724	1-249-393-11	CARBON	10 5	% 1/4W	C025	1-126-935-11	ELECT	470UF	20.00%	16V
R728	R726	1-215-871-11	METAL OXIDE	2.2K 5	% 1₩	C026	1-163-009-11	CERAMIC CHIP	0.001UF	10.00%	50 V
## R730 1-247-827-91 CABROW 640 54 1/4W C032 1-163-091-11 CREANIC CRIP 0.010T 10.004 S0V R730 1-247-407-11 CABROW 37 54 1/4W C032 1-163-091-11 CREANIC CRIP 0.010T 10.004 S0V R734 1-247-407-11 CABROW 100 54 1/4W C035 1-163-091-11 CREANIC CRIP 0.010T 10.004 S0V R736 1-213-900-11 CREANIC CRIP 0.001T 10.004 S0V R736 1-213-900	R727	1-247-815-91	CARBON	220 5	% 1/4W	C027	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
1-249-401-11 CARCHY 47 51 1/49 CO33 1-163-09-11 CERNIC CEIF 0.00UF 10.095 50V	R728	1-216-344-00	METAL OXIDE	0.39 5	% 1W	C028	1-163-009-11	CERAMIC CHIP	0.001UF	10.00%	50V
1-247-845-71 CARRON 3.98 58 1/48 CO35 1-163-009-11 CRAMIC CRIP 0.0107 10.096 507	R729	1-247-827-91	CARBON	680 5	% 1/4W	C030	1-163-009-11	CERAMIC CHIP	0.001UF	10.00%	50V
R734	R730	1-249-401-11	CARBON	47 5	% 1/4W	C032	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
R736	R731	1-247-845-91	CARBON	3.9K 5	•	C033				10.00%	50V
R741	R734	1-247-807-31	CARBON	100 5	% 1/4₩	C035	1-163-009-11	CERAMIC CHIP	0.001UF	10.00%	50V
CORRIGINATION CORPORATION	R736	1-215-900-11	METAL OXIDE	22K 5		C036	1-163-009-11	CERAMIC CHIP	0.001UF	10.00%	50V
CORMING CHIP 2.7 1.00% 50% 1.164-505-11 CERAMIC CHIP 2.7 1.00% 50% 1.165-301-10 CERAMIC CHIP 0.00709 1.00% 50% 1.165-301-11 CERAMIC CHIP 0.00709 1.165-301-11 CERAMIC CHIP 0	R741	1-202-549-00	SOLID	100 2	0% 1/2W		1-137-354-11	FILM	0.01UF	5.00%	100V
Code										10.00%	
Note		< VARIABI	LE RESISTOR >								
*A-1632-901-A A Board, Complete (KV-14LM1B) *A-1632-993-A A Board, Complete (KV-14LM1B) *A-1632-995-A Board, Complete (KV-14LM1B) *A-1632-995-A A Board, Complete (KV-14LM1B) *A-1632-995-B A Board, C	PV702	1-241-656-21	RES ADT MET	AT. FTT.M	110M	C040	1-163-017-00	CERAMIC CHIP	0.0047UF	10.00%	50V
**A-1632-901-A	41T FV6	- 24 VJV 4I	and and the			C042	1-163-213-00	CERAMIC CHIP	0.0022UF	5.00%	50V
A-1632-891-A A Board, Complete (KV-14LM1E) A-1632-891-A A Board, Complete (KV-14LM1E) A-1632-893-A A Board, Complete (KV-14LM1E) A-1632-895-A A Board, Complete (KV-14LM1E) A-1632-895-A A Board, Complete (KV-14LM1E) A-1632-895-A A Board, Complete (KV-14LT1E) A-1632-896-A A Board, Complete (KV-14LT1E) A-1632-896-A A Board, Complete (KV-14LT1E) A-1632-897-A A Board, Complete (KV-14LT1E) A-1632-897-A A Board, Complete (KV-14LT1E) A-1632-897-A A Board, Complete (KV-14LT1E) A-1632-897-A A Board, Complete (KV-14LT1E) A-2632-896-A Board, Complete (KV-14LT1E) A-2632-897-A B	*A.162	22-901-1	A Board, Cor	nnlete	(KV-14LM1B)						
*A-1632-902-A A Board, Complete (KV-14LM1K)						C044	1-164-346-11	CERAMIC CHIP	1UF		16V
*A-1632-935-A A Board, Complete (KV-14LT1B) *A-1632-896-A A Board, Complete (KV-14LT1B) *A-1632-896-A A Board, Complete (KV-14LT1C) *A-1632-896-A A Board, Complete (KV-14LT1C) *A-1632-896-A A Board, Complete (KV-14LT1C) *A-1632-896-A A Board, Complete (KV-14LT1C) *A-1632-896-A A Board, Complete (KV-14LT1C) *A-1632-896-A A Board, Complete (KV-14LT1C) *A-1632-896-A A Board, Complete (KV-14LT1C) *A-1632-896-A A Board, Complete (KV-14LT1C) *A-1632-896-A A Board, Complete (KV-14LT1C) *A-1632-896-A A Board, Complete (KV-14LT1C) *A-1632-896-A A Board, Complete (KV-14LT1C) *A-1632-896-A A Board, Complete (KV-14LT1C) *A-1632-896-A Board, Complete (KV-14LT1C) *A-1632-896-A A Board, Complete (KV-14LT1C) *A-1632-896-A B Board, Complete (KV-14LT1C) *A-1632-896-A A Board, Complete (KV-14LT1C) *A-1632-896-A B Board, Comp						C045	1-164-489-11	CERAMIC CHIP	0.22UF	10.00%	16V
*A-1632-886-A A Board, Complete (KV-14LT1E) *A-1632-897-A A Board, Complete (KV-14LT1U) *A-163-018-91 ELECT 1000F 20.00 50V *A-163-98-91 ELECT 1000F 20.00 50V *A-163-98-9	*A-163	32-903-A	A Board, Cor	nplete	(KV-14LM1U)	C046	1-163-037-11	CERAMIC CHIP	0.022UF	10.00%	50V
*A-1632-895-A A Board, Complete (KV-14LT1K) *A-1632-897-A A Board, Complete (KV-14LT1U) *A-1632-897-A B Board, Complete (KV-14LT1U) *A-203-258-D Bo						C047	1-126-935-11	FI.FCT	470UF	20 00%	16V
A Board, Common Parts C100											
C100	*A-163									20.000	231
A Board, Common Parts C103									•	20.00%	16V
*4-374-846-01 COVER, CAPACITOR, CAP TYPE 4-382-854-01 SCREW (M3X8), P, SN (+) 4-382-854-01 SCREW (M3X8), P, SN (+) 4-382-854-01 SCREW (M3X10), P, SN (+) C110 1-163-113-00 CERAMIC CHIP 68PF 5.00% 50V C253 1-164-336-11 CERAMIC CHIP 0.33UF 25V C001 1-126-933-11 ELECT 100UF 20.00% 16V C002 1-163-233-11 CERAMIC CHIP 18PF 5.00% 50V C002 1-163-233-11 CERAMIC CHIP 18PF 5.00% 50V C004 1-163-037-11 CERAMIC CHIP 0.022UF 10.00% 50V C005 1-126-935-11 ELECT 470UF 20.00% 16V C006 1-163-233-11 CERAMIC CHIP 18PF 5.00% 50V C007 1-163-037-11 CERAMIC CHIP 18PF 5.00% 50V C007 1-163-037-11 CERAMIC CHIP 0.022UF 10.00% 50V C009 1-163-037-11 CERAMIC CHIP 0.022UF 10.00% 50V C009 1-163-037-11 CERAMIC CHIP 0.022UF 10.00% 50V C010 1-163-037-11 CERAMIC CHIP 0.022UF 10.00% 50V C021 1-163-037-11 CERAMIC CHIP 0.022UF 10.00% 50V C022 1-163-037-11 CERAMIC CHIP 0.022UF 10.00% 50V C033 1-163-037-11 CERAMIC CHIP 0.002UF 10.00% 50V C410 1-163-009-11 CERAMIC CHIP 0.01UF 10.00% 50V C421 1-163-009-11 CERAMIC CHIP 0.01UF 10.00% 50V C421 1-163-009-11 CERAMIC CHIP 0.001UF 10.00% 50V C421 1-163-009-11 CERAMIC CHIP 0.001UF 10.00% 50V C422 1-163-009-11 CERAMIC CHIP 0.001UF 10.00% 50V C438 1-164-346-11 CERAMIC CHIP 0.001UF 10.00% 50V C449 1-164-492-11 CERAMIC CHIP 0.15UF 16V C501 1-164-049-11 CERAMIC CHIP 0.15UF 10.00% 50V C501 1-164-08-01 CERAMIC CHIP 0.15UF 10.00% 50V C501 1-164-08-01 CERAMIC CHIP 0.01UF 10.00% 50V C502 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C503 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C504 1-106-220-00 MYLAR 0.1UF 10.00% 50V C505 1-137-194-81 MYLAR 0.47UF 5.00% 50V C506 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C507 1-164-004-11 CERAMIC CHIP 0.01UF 10.00% 50V C508 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C509 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V	A Boa	rd, Common	Parts								
*4-374-846-01 COVER, CAPACITOR, CAP TYPE 4-382-854-01 SCREW (M3X8), P, SN (+) 4-382-854-01 SCREW (M3X8), P, SN (+) 4-382-854-01 SCREW (M3X10), P, SN (+) C110 1-163-113-00 CERAMIC CHIP 68PF 5.00% 50V C253 1-164-336-11 CERAMIC CHIP 0.33UF 25V C001 1-126-933-11 ELECT 100UF 20.00% 16V C002 1-163-233-11 CERAMIC CHIP 18PF 5.00% 50V C002 1-163-233-11 CERAMIC CHIP 18PF 5.00% 50V C004 1-163-037-11 CERAMIC CHIP 0.022UF 10.00% 50V C005 1-126-935-11 ELECT 470UF 20.00% 16V C006 1-163-233-11 CERAMIC CHIP 18PF 5.00% 50V C007 1-163-037-11 CERAMIC CHIP 18PF 5.00% 50V C007 1-163-037-11 CERAMIC CHIP 0.022UF 10.00% 50V C009 1-163-037-11 CERAMIC CHIP 0.022UF 10.00% 50V C009 1-163-037-11 CERAMIC CHIP 0.022UF 10.00% 50V C010 1-163-037-11 CERAMIC CHIP 0.022UF 10.00% 50V C021 1-163-037-11 CERAMIC CHIP 0.022UF 10.00% 50V C022 1-163-037-11 CERAMIC CHIP 0.022UF 10.00% 50V C033 1-163-037-11 CERAMIC CHIP 0.002UF 10.00% 50V C410 1-163-009-11 CERAMIC CHIP 0.01UF 10.00% 50V C421 1-163-009-11 CERAMIC CHIP 0.01UF 10.00% 50V C421 1-163-009-11 CERAMIC CHIP 0.001UF 10.00% 50V C421 1-163-009-11 CERAMIC CHIP 0.001UF 10.00% 50V C422 1-163-009-11 CERAMIC CHIP 0.001UF 10.00% 50V C438 1-164-346-11 CERAMIC CHIP 0.001UF 10.00% 50V C449 1-164-492-11 CERAMIC CHIP 0.15UF 16V C501 1-164-049-11 CERAMIC CHIP 0.15UF 10.00% 50V C501 1-164-08-01 CERAMIC CHIP 0.15UF 10.00% 50V C501 1-164-08-01 CERAMIC CHIP 0.01UF 10.00% 50V C502 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C503 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C504 1-106-220-00 MYLAR 0.1UF 10.00% 50V C505 1-137-194-81 MYLAR 0.47UF 5.00% 50V C506 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C507 1-164-004-11 CERAMIC CHIP 0.01UF 10.00% 50V C508 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C509 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V			######################################			C105	1-163-021-91	CERAMIC CHIP	0 01HF	10 00%	50V
A-382-954-01 SCREW (M3X10), P, SW (+) C110 1-163-113-00 CERAMIC CHIP 68PF 5.00% 50V			,		#UDD						
C111											
CODI 1-126-933-11 ELECT 100UF 20.00% 16V C408 1-164-346-11 CERAMIC CHIP 0.001UF 10.00% 50V C409 1-126-944-11 ELECT 10UF 20.00% 50V C410 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C410 1-163-021-91 CERAMIC CHIP 0.001UF 10.00% 50V C410 1-163-021-91 CERAMIC CHIP 0.001UF 10.00% 50V C420 1-163-033-11 CERAMIC CHIP 10.001UF 10.00% 50V C420 1-163-037-11 CERAMIC CHIP 0.022UF 10.00% 50V C420 1-163-009-11 CERAMIC CHIP 0.001UF 10.00% 50V C420 1-163-037-11 CERAMIC CHIP 0.022UF 10.00% 50V C420 1-163-009-11 CERAMIC CHIP 0.001UF 10.00% 50V C420 1-163-037-11 CERAMIC CHIP 0.022UF 10.00% 50V C420 1-163-037-11 CERAMIC CHIP 0.022UF 10.00% 50V C420 1-163-038-10 CERAMIC CHIP 0.001UF 10.00% 50V C420 1-163-038-10 CERAMIC CHIP 0.01UF 10.00% 50V C420 1-163-038-10 CERAMIC CHIP 0.01UF 10.00% 50V C420 1-163-039-11 CERAMIC CHIP 0.01UF 10.00% 50V C420 1-163-038-91 CERAMIC CHIP 0.01UF 10.00% 50V C420 1-163-038-91 CERAMIC CHIP 0.01UF 10.00% 50V C420 1-163-038-91 CERAMIC CHIP 0.01UF 20.00% 50V C501 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C502 1-163-021-91 CERAMIC CHIP 0.01UF 20.00% 50V C501 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C502 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C502 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C502 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C503 1-164-004-11 CERAMIC CHIP 0.01UF 10.00% 50V C503 1-164-004-11 CERAMIC CHIP 0.01UF 10.00% 50V C503 1-164-004-11 CERAMIC CHIP 0.01UF 10.0					• •						
C001 1-126-933-11 ELECT 100UF 20.00% 16V C408 1-164-348-11 CERAMIC CHIP 0.01UF 10.00% 50V C409 1-126-964-11 ELECT 10UF 20.00% 50V C410 1-163-037-11 CERAMIC CHIP 0.02UF 10.00% 50V C410 1-163-037-11 CERAMIC CHIP 18FF 5.00% 50V C410 1-163-031-91 CERAMIC CHIP 0.01UF 16V C415 1-164-346-11 CERAMIC CHIP 0.01UF 16V C415 1-164-346-11 CERAMIC CHIP 0.01UF 10.00% 50V C420 1-163-037-11 CERAMIC CHIP 18FF 5.00% 50V C420 1-163-009-11 CERAMIC CHIP 0.001UF 10.00% 50V C420 1-163-037-11 CERAMIC CHIP 0.022UF 10.00% 50V C420 1-163-009-11 CERAMIC CHIP 0.001UF 10.00% 50V C420 1-164-346-11 CERAMIC CHIP 0.01UF 16V C420 1-164-346-11 CERAMIC CHIP 0.001UF 10.00% 50V C420 1-164-346-11 CERAMIC CHIP 0.15UF 10.00% 16V C420 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C501 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C501 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C502 1-163-038-91 CERAMIC CHIP 0.1UF 25V C501 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C503 1-126-968-11 ELECT 100UF 20.00% 50V C504 1-106-220-00 MYLAR 0.1UF 10.00% 100V C504 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C506 1-163-021-91 CERAMIC CHIP 0.01UF 5.00% 50V C506		4-382-834-11	SCKEM (MOXIO)	, r, sm	(+)		1-164-336-11	CERAMIC CHIP	0.33UF		
COO1		< CAPACI	TOR >			C403	1-163-009-11	CERAMIC CHIP	0.001UF	10.00%	50V
CO02 1-163-233-11 CERAMIC CHIP 18PF 5.00% 50V C409 1-126-964-11 ELECT 10UF 20.00% 50V C410 1-163-021-91 CERAMIC CHIP 0.02UF 10.00% 50V C410 1-163-021-91 CERAMIC CHIP 1UF 16V C006 1-163-233-11 ELECT 470UF 20.00% 16V C415 1-164-346-11 CERAMIC CHIP 1UF 16V C415 1-163-099-11 CERAMIC CHIP 0.001UF 10.00% 50V C421 1-163-099-11 CERAMIC CHIP 0.001UF 10.00% 50V C421 1-163-099-11 CERAMIC CHIP 0.001UF 10.00% 50V C426 1-163-099-11 CERAMIC CHIP 0.001UF 10.00% 50V C426 1-163-099-11 CERAMIC CHIP 0.001UF 16V C011 1-163-037-11 CERAMIC CHIP 0.022UF 10.00% 50V C437 1-164-346-11 CERAMIC CHIP 0.001UF 16V C011 1-163-037-11 CERAMIC CHIP 0.022UF 10.00% 50V C438 1-164-346-11 CERAMIC CHIP 1UF 16V C012 1-126-963-11 ELECT 4.7UF 20.00% 50V C449 1-164-492-11 CERAMIC CHIP 0.15UF 10.00% 16V C013 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C499 1-164-492-11 CERAMIC CHIP 0.15UF 10.00% 16V C501 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C502 1-163-038-91 CERAMIC CHIP 0.1UF 25V C501 1-126-968-11 ELECT 100UF 20.00% 50V C503 1-126-968-11 ELECT 100UF 20.00% 50V C504 1-106-220-00 MYLAR 0.1UF 10.00% 10V C508 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C504 1-106-220-00 MYLAR 0.1UF 10.00% 10V C508 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C504 1-106-220-00 MYLAR 0.47UF 5.00% 50V C504 1-164-004-11 CERAMIC CHIP 0.1UF 5.00% 50V C506 1-163-021-91 CERAMIC CHIP 0.01UF 5.00% 50V C506 1-163-021-91 CERAMIC CHIP 0.01UF 5.00% 50V C506 1-163-021-91 CERAMIC CHIP 0.01UF 5.00% 50V C509 1-163-021-91 CERAMIC CHIP 0.01UF 5.00% 50V C509 1-163-021-91 CERAMIC CHIP 0.01UF 5.00% 50V C504 1-106-220-00 MYLAR 0.1UF 5.00% 50V C504 1-106-220-00 MYLAR 0.47UF 5.00% 50V C509 1-164-004-11 CERAMIC CHIP 0.01UF 5.00% 50V C509 1-164-004-11 CERAMIC CHIP 0.01UF 5.00% 50V C509 1-164-004-11 CERAMIC CHIP 0.1UF 5.0	C001	1-126-022-11	まじむしむ	10000	20 00% 160						
C004 1-163-037-11 CERAMIC CHIP 0.022UF 10.00% 50V C410 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C415 1-164-346-11 CERAMIC CHIP 1UF 16V 16V C415 1-163-037-11 CERAMIC CHIP 1BPF 5.00% 50V C421 1-163-037-11 CERAMIC CHIP 0.022UF 10.00% 50V C421 1-163-037-11 CERAMIC CHIP 0.022UF 10.00% 50V C426 1-163-037-11 CERAMIC CHIP 0.022UF 10.00% 50V C426 1-163-037-11 CERAMIC CHIP 0.022UF 10.00% 50V C437 1-164-346-11 CERAMIC CHIP 0.001UF 10.00% 50V C437 1-164-346-11 CERAMIC CHIP 0.001UF 16V C011 1-163-005-11 CERAMIC CHIP 470PF 10.00% 50V C438 1-164-346-11 CERAMIC CHIP 1UF 16V C012 1-126-963-11 ELECT 4.7UF 20.00% 50V C449 1-164-492-11 CERAMIC CHIP 0.15UF 10.00% 16V C501 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C501 1-126-968-11 ELECT 100UF 20.00% 50V C501 1-126-968-11 ELECT 100											
C005 1-126-935-11 ELECT 470UF 20.00% 16V C006 1-163-233-11 CERAMIC CHIP 18PF 5.00% 50V C007 1-163-037-11 CERAMIC CHIP 0.022UF 10.00% 50V C009 1-163-037-11 CERAMIC CHIP 0.022UF 10.00% 50V C011 1-163-005-11 CERAMIC CHIP 0.022UF 10.00% 50V C012 1-126-963-11 ELECT 4.7UF 20.00% 50V C013 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C014 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C015 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C016 1-126-960-11 ELECT 1UF 20.00% 50V C017 1-126-960-11 ELECT 1UF 20.00% 50V C018 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C019 1-126-960-11 ELECT 1UF 20.00% 50V C010 1-126-960-11 ELECT 1UF 20.00% 50V C010 1-126-960-11 ELECT 1UF 20.00% 50V C011 1-126-960-11 ELECT 1UF 20.00% 50V C012 1-126-960-11 ELECT 1UF 20.00% 50V C013 1-126-960-11 ELECT 1UF 20.00% 50V C014 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C015 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C016 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C017 1-126-960-11 ELECT 1UF 20.00% 50V C018 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C018 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C020 1-164-004-11 CERAMIC CHIP 0.01UF 10.00% 50V C0505 1-137-194-81 MYLAR 0.47UF 5.00% 50V C506 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V											
C006 1-163-233-11 CERAMIC CHIP 18PF 5.00% 50V C421 1-163-009-11 CERAMIC CHIP 0.001UF 10.00% 50V C426 1-163-009-11 CERAMIC CHIP 0.001UF 10.00% 50V C426 1-163-009-11 CERAMIC CHIP 0.001UF 10.00% 50V C426 1-163-009-11 CERAMIC CHIP 0.001UF 10.00% 50V C437 1-164-346-11 CERAMIC CHIP 10F 16V C437 1-164-346-11 CERAMIC CHIP 10F 16V C438 1-164-346-11 CERAMIC CHIP 10F 16V C438 1-164-346-11 CERAMIC CHIP 10F 16V C449 1-164-492-11 CERAMIC CHIP 10F 16V C449 1-164-492-11 CERAMIC CHIP 0.15UF 10.00% 16V C501 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C501 1-126-968-11 ELECT 100UF 20.00% 50V C501 1-163-038-91 CERAMIC CHIP 0.1UF 25V C501 1-126-968-11 ELECT 100UF 20.00% 50V C503 1-126-968-11 ELECT 100UF 20.00% 50V C503 1-126-968-11 ELECT 100UF 20.00% 50V C503 1-126-968-11 ELECT 100UF 20.00% 50V C504 1-106-220-00 MYLAR 0.1UF 10.00% 100V C505 1-137-194-81 MYLAR 0.47UF 5.00% 50V C500 1-164-004-11 CERAMIC CHIP 0.1UF 10.00% 50V C505 1-137-194-81 MYLAR 0.47UF 5.00% 50V C500 1-163-021-91 CERAMIC CHIP 0.1UF 10.00% 50V C506 1-163-021-91 CERAMIC CHIP 0.1UF 10.00% 50V C506 1-163-021-91 CERAMIC CHIP 0.1UF 10.00% 50V C506 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C506 1-163-021						C415	1-164-346-11	CERAMIC CHIP	1UF		16V
C007 1-163-037-11 CERAMIC CHIP 0.022UF 10.00% 50V C426 1-163-009-11 CERAMIC CHIP 0.001UF 10.00% 50V C426 1-163-009-11 CERAMIC CHIP 0.001UF 10.00% 50V C437 1-164-346-11 CERAMIC CHIP 10.00% 50V C438 1-164-346-11 CERAMIC CHIP 10.00% 16V C449 1-164-492-11 CERAMIC CHIP 10.15UF 16V C449 1-164-492-11 CERAMIC CHIP 0.15UF 10.00% 16V C449 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C501 1-126-968-11 ELECT 100UF 20.00% 50V C501 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C502 1-163-038-91 CERAMIC CHIP 0.1UF 25V C501 1-126-968-11 ELECT 100UF 20.00% 50V C501 1-126-968-11 ELECT											
CO09 1-163-037-11 CERAMIC CHIP 0.022UF 10.00% 50V C437 1-164-346-11 CERAMIC CHIP 1UF 16V C011 1-163-005-11 CERAMIC CHIP 470PF 10.00% 50V C438 1-164-346-11 CERAMIC CHIP 1UF 16V C012 1-126-963-11 ELECT 4.7UF 20.00% 50V C449 1-164-492-11 CERAMIC CHIP 0.15UF 10.00% 16V C013 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C501 1-126-968-11 ELECT 100UF 20.00% 50V C502 1-163-038-91 CERAMIC CHIP 0.1UF 25V C015 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C503 1-126-968-11 ELECT 100UF 20.00% 50V C501 1-126-968-11 ELECT 100UF 20.00% 50V C501 1-126-968-11 ELECT 100UF 20.00% 50V C503 1-126-968-11 ELECT 100UF 20.00% 50V C504 1-106-220-00 MYLAR 0.1UF 10.00% 100V C508 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C505 1-137-194-81 MYLAR 0.47UF 5.00% 50V C506 1-163-021-91 CERAMIC CHIP 0.1UF 10.00% 50V C506 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C506 1-163-021-91 CERAMIC CHIP 0.01		**				C421	1-163-009-11	CERAMIC CHIP	0.001UF	10.00%	50V
C009 1-163-037-11 CERAMIC CHIP 0.022UF 10.00% 50V C437 1-164-346-11 CERAMIC CHIP 1UF 16V C011 1-163-005-11 CERAMIC CHIP 470PF 10.00% 50V C438 1-164-346-11 CERAMIC CHIP 1UF 16V C012 1-126-963-11 ELECT 4.7UF 20.00% 50V C449 1-164-492-11 CERAMIC CHIP 0.15UF 10.00% 16V C013 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C501 1-126-968-11 ELECT 100UF 20.00% 50V C014 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C502 1-163-038-91 CERAMIC CHIP 0.1UF 25V C015 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C503 1-126-968-11 ELECT 100UF 20.00% 50V C501 1-126-960-11 ELECT 10UF 20.00% 50V C504 1-106-220-00 MYLAR 0.1UF 10.00% 100V C508 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C505 1-137-194-81 MYLAR 0.47UF 5.00% 50V C506 1-163-021-91 CERAMIC CHIP 0.1UF 10.00% 50V C506 1-163-021-91 CERAMIC CHIP 0.1UF 10.00% 50V C506 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C506 1-163-021-91	C007	1-163-037-11	CERAMIC CHIP	0.022UF	10.00% 50V	C426	1-163-009-11	CERAMIC CHIP	0.001UF	10.00%	50V
C011 1-163-005-11 CERAMIC CHIP 470FF 10.00% 50V C438 1-164-346-11 CERAMIC CHIP 1UF 16V C012 1-126-963-11 ELECT 4.7UF 20.00% 50V C449 1-164-492-11 CERAMIC CHIP 0.15UF 10.00% 16V C013 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C501 1-126-968-11 ELECT 100UF 20.00% 50V C502 1-163-038-91 CERAMIC CHIP 0.1UF 25V C015 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C503 1-126-968-11 ELECT 100UF 20.00% 50V C501 1-126-968-11 ELECT 100UF 20.00% 50V C503 1-126-968-11 ELECT 100UF 20.00% 50V C504 1-106-220-00 MYLAR 0.1UF 10.00% 100V C508 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C505 1-137-194-81 MYLAR 0.47UF 5.00% 50V C506 1-163-021-91 CERAMIC CHIP 0.1UF 10.00% 50V C506 1-163-021-91 CERAMIC CHIP 0.1UF 10.00% 50V C506 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C506 1-163-021-						C437	1-164-346-11	CERAMIC CHIP	1UF		16V
C012 1-126-963-11 ELECT 4.7UF 20.00% 50V C449 1-164-492-11 CERAMIC CHIP 0.15UF 10.00% 16V C013 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C501 1-126-968-11 ELECT 100UF 20.00% 50V C502 1-163-038-91 CERAMIC CHIP 0.1UF 25V C015 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C503 1-126-968-11 ELECT 100UF 20.00% 50V C017 1-126-960-11 ELECT 1UF 20.00% 50V C504 1-106-220-00 MYLAR 0.1UF 10.00% 100V C018 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C505 1-137-194-81 MYLAR 0.47UF 5.00% 50V C506 1-164-004-11 CERAMIC CHIP 0.1UF 10.00% 25V C506 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C506 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 5						C438	1-164-346-11	CERAMIC CHIP	1UF		16V
C013 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C014 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C015 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C017 1-126-960-11 ELECT 1UF 20.00% 50V C018 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C019 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C010 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C010 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C020 1-164-004-11 CERAMIC CHIP 0.1UF 10.00% 25V C030 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C500 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C500 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V					20.00% 50V	C449	1-164-492-11	CERAMIC CHIP	0.15UF	10.00%	16V
C014 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C502 1-163-038-91 CERAMIC CHIP 0.1UF 25V C015 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C503 1-126-968-11 ELECT 100UF 20.00% 50V C504 1-106-220-00 MYLAR 0.1UF 10.00% 100V C018 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C505 1-137-194-81 MYLAR 0.47UF 5.00% 50V C506 1-164-004-11 CERAMIC CHIP 0.1UF 10.00% 25V C506 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V	C013	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 50V	C501	1-126-968-11	FT.FCT	10000	20 00%	50V
C015 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C503 1-126-968-11 ELECT 100UF 20.00% 50V C017 1-126-960-11 ELECT 1UF 20.00% 50V C504 1-106-220-00 MYLAR 0.1UF 10.00% 100V C018 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C505 1-137-194-81 MYLAR 0.47UF 5.00% 50V C020 1-164-004-11 CERAMIC CHIP 0.1UF 10.00% 25V C506 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V		4 440 444 44	******	A A4	10 000 500					20.000	
C017 1-126-960-11 ELECT 1UF 20.00% 50V C504 1-106-220-00 MYLAR 0.1UF 10.00% 100V C018 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C505 1-137-194-81 MYLAR 0.47UF 5.00% 50V C506 1-164-004-11 CERAMIC CHIP 0.1UF 10.00% 25V C506 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C506 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V										20 009	
C018 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V C020 1-164-004-11 CERAMIC CHIP 0.1UF 10.00% 25V C506 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V											
C020 1-164-004-11 CERAMIC CHIP 0.1UF 10.00% 25V C506 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V											
C506 1-163-021-91 CERAMIC CHIP 0.01UF 10.00% 50V						6303	1 13: 134-01	set that	0.7/05	J.008	JU1
0F00 1 100 00F 00 0PD1UTG GUTD 0 04F0P	C020	1-164-004-11	CERAMIC CHIP	U.1UF	10.00% 25V	C506	1-163-021-91	CERAMIC CHIP	0.01UF	10 00%	50V
	C021	1-163-037-11	CERAMIC CHIP	0.022UF	10.00% 50V					20.000	

The components identified by shading and marked ∆ are critical for safety
Replace only with the part number specified.



REF. NO.	PART.NO	DESCRIPTION	N	RE	MARK	REF. NO.	PART.NO	DESCRIPTIO	N	RE	MARK
C509	1-107-364-11	MYLAR	0.01UF	10.00%	400V	C619	1-164-644-11	CERAMIC	330PF	10.00%	500V
C510	1-163-005-11	CERAMIC CHIP	470PF	10.00%	50V	C620	1-135-871-21	FILM	15000PF	3%	800V
C513	1-128-560-11	ELECT	22UF	20.00%	100V	C621	1-164-644-11		330PF	10.00%	
C515	1-104-666-11		220UF	20.00%	- ·		Δ 1-104-571 ₅ 91		0.001501.		
C517	1-104-666-11	ELECT	220UF	20.00%	25V	C623	A 1-104-571-91	CERAMIC	0.00150F	10.00%	ZKV -
C518	1-106-375-12		0.022UF	10.00%	250V	C624	1-126-935-11		470UF	20.00%	
C519	1-163-275-11	CERAMIC CHIP	0.001UF	5.00%		we hide an underly a cure?	Δ=1=117-703-11		0:0047UF	99%	. 250V
C520		CERAMIC CHIP			25V	C626	1-126-967-11		47UF	20.00%	
C522	1-130-495-00		0.1UF	5.00%	50V	C627	1-126-964-11		10UF	20.00%	
C524	1-216-295-91	SHORT	0			C628	1-126-963-11	ELECT	4.7UF	20.00%	50V
C525	1-123-024-21		33UF		160V	C630	1-107-640-41		100UF	20.00%	
C531	1-126-964-11		10UF	20.00%		C631	1-126-942-61		1000UF	20.00%	
C532		CERAMIC CHIP		10.00%		C632	1-126-964-11		10UF	20.00%	
C535		CERAMIC CHIP		5.00%		C633		CERAMIC CHIP		10.00%	
C536	1-119-859-11	FILM	0.36UF	5.00%	250V	C635	1-136-165-00	MYLAR	0.1UF	5.00%	50 V
C537	1-106-343-00		0.001UF	10.00%		C636	1-136-479-11		0.001UF	2.00%	50V
C538		CERAMIC CHIP			50V	C637	1-126-967-11		47UF	20.00%	
C539	1-107-642-91		3.3UF	20.00%		C638	1-107-679-91		10UF	20.00%	
C540	1-136-206-11		0.033UF	10.00%		C639	1-104-665-11		100UF	20.00%	
C541	1-106-383-00	MYLAR	0.047UF	10.00%	200V	C640	1-104-664-11	ELECT	47UF	20.00%	25V
C542	1-162-116-51	CERAMIC	680PF	10.00%	2KV	C641	1-111-036-11	ELECT	470UF	20.00%	16V
C545	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V	C642	1-104-665-11	ELECT	100UF	20.00%	25V
C546		FILM	0.015UF	5.00%		C643	1-164-644-11		330PF	10.00%	500V
C547	1-117-671-21		1UF	5.00%		C645		CERAMIC CHIP		10.00%	
C550	1-107-638-11	ELECT	33UF	20.00%	160V	C648	1-125-782-91	CERAMIC	4700PF	10.00%	1KV
C552	1-102-212-00	CERAMIC	820PF	10.00%	500V	C657	1-126-952-11	ELECT	1000UF	20.00%	35V
C555	1-117-637-31		5600PF	3.00%	1.2KV	C1201	1-126-952-11	ELECT	1000UF	20.00%	
C580		CERAMIC CHIP		10.00%		C1203	1-126-942-61		1000UF	20.00%	
C582	1-163-255-11	CERAMIC CHIP		5.00%		C1205		CERAMIC CHIP			50V
C583	1-163-009-11	CERAMIC CHIP	0.001UF	10.00%	50V	C1207	1-115-340-11	CERAMIC CHIP	0.22UF	10.00%	25V
	1-119-888-51					C1208		LEAD, JUMPER	•		
	. 1-136-516-12					C1218		CERAMIC CHIP	1UF	10.00%	10V
C602	1-136-516-12	TIM	0.10F.	20.00%	3004	C1219	1-104-666-11		220UF	20.00%	
	1=119-888-51					C1220		CERAMIC CHIP			16V
C604* A	(1.1±119-888-51)	CERAMIC	*2200PF	20,00%	250V	C1221	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50 V
C605	1-126-935-11		470UF	20.00%	16V	C1223	1-163-125-00	CERAMIC CHIP	220PF	5.00%	50V
C606	1-125-991-11		180UF		450V	C1226		CERAMIC CHIP		10.00%	16V
C607	1-126-964-11	ELECT	10UF	20.00%		C1227	1-163-125-00	CERAMIC CHIP	220PF	5.00%	50V
C608	1-126-963-11		4.7UF	20.00%							
C610	1-126-941-11	ELECT	470UF	20.00%	25V		< CONNECT	OR >			
C611		CERAMIC CHIP		10.00%	50V	CN001	*1-564-508-11	PLUG, CONNECT	OR 5P		
	1-104-571-91					CN501	*1-580-798-11	CONNECTOR PI	(DY)		
	v:45104+571+91				2KV	CN504	*1-564-509-11	PLUG, CONNECT	OR 6P		
C614* 34	V 1-161-964-5 1	CERAMIC	0,0047UF		250V	CN508	*1-564-508-11				
C615	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V	CN601	<u> </u>	PIN, CONNECTO	Ray (POWER)	i i k arang	it mer
C617	1-164-644-11	CERAMIC	330PF	10.00%	500V	CN602 ***	V=11-508=765=00°	DRIN. CONNECTO	R (5IM PIT	28)/23P343	
	1-126-949-11		220UF	20.00%			41-508-786-00				





REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRI	PTION	REMARK
		TAB (CONTACT)		D505	8-719-988-61			
	,							
N1201	^1-364-306-11	PLUG, CONNECTOR 3P		D506	8-719-908-03			
	4 2742			D507	8-719-070-56			
	< DIODE >	•		D512	8-719-908-03			
				D513	8-719-950-57	DIODE BYD	33G-AMMO	
001		DIODE UDZS-TE17-5.6B						
002		DIODE UDZS-TE17-5.6B		D514	8-719-908-03			
003		DIODE MTZJ-T-77-3.6B		D534	8-719-908-03			
0004		DIODE SEL1210S-D		D535	8-719-908-03			
005	8-719-110-08	DIODE MIZJ-T-77-8.2B		D536	8-719-945-80			
				D537	8-719-110-14	DIODE MT2	J-T-77-9.1C	
006		DIODE MTZJ-T-77-5.6B						
007	8-719-069-55	DIODE UDZS-TE17-5.6B		D538	8-719-908-03	DIODE GPO	8DPKG23	
800	8-719-074-43	DIODE BAS316-115		D539	8-719-928-08	DIODE ERD	28-06S	
010	8-719-074-43	DIODE BAS316-115		D541	1-535-303-00	LEAD, JUM	IPER (5.00MM)	
011	8-719-074-43	DIODE BAS316-115		D573	8-719-976-96	DIODE UDZ	-TE-17-4.7B	
				D601	8-719-510-53	DIODE D4S	B60L-F	
012	8-719-110-08	DIODE MTZJ-T-77-8.2B						
013	8-719-109-69	DIODE MTZJ-T-77-3.6B		D602	8-719-911-19	DIODE 1SS	119-25TD	
014	8-719-422-12	DIODE UDZ-TE-17-3.9B		D604	8-719-979-64	DIODE UF4	005PKG23	
016	8-719-109-89	DIODE MTZJ-T-77-5.6B		D608	8-719-063-70	DIODE DIN	L20U-TA2	
017	8-719-109-97	DIODE MTZJ-T-77-6.8B		D610	8-719-110-41	DIODE RD1	5ES-T1B2	
				D611	8-719-991-33	DIODE 1SS	133T-77	
018	8-719-109-69	DIODE MTZJ-T-77-3.6B						
019		DIODE MTZJ-T-77-6.8B		D612	8-719-991-33	DIODE 1SS	1337-77	
020		DIODE MTZJ-T-77-5.6B		LOS ANDRONA CARRACTORA	<u>.</u> 8-719-911-19.	a sa managana and a same		
035		DIODE UDZS-TE17-5.6B		D614	8-719-077-76	Will at the College of the College State of the Col	PRODUCE THE CONTRACT OF THE CONTRACT	· · · · · · · · · · · · · · · · · · ·
036		DIODE UDZS-TE17-5.6B		D615	8-719-110-08			
.030	0 715 005 55	D1008 0080 1817 3.05		D616	8-719-052-90			
051	9_710_060_57	DIODE UDZS-TE17-6.8B		D010	6-119-032-90	DIODE DIN	L4U-IAZ	
101		DIODE MA8330-TX		D617	8-719-052-90	DIODE DIN	τ 4Λ_ma2	
101		DIODE UDZS-TE17-6.8B		D617	8-719-032-90			
104		DIODE UDZS-TE17-5.6B		D619	8-719-022-97			
210		DIODE UDZS-TE17-5.6B		D619	8-719-022-97			
210	0-113-003-33	DIODE 0023-1517-3.0B		D620 D621				
011	0 710 060 60	DYANG IIDGC MG17 A 1D		DOZI	8-719-109-89	DIOUE MIZ	J-T-//-5.6B	
211		DIODE UDZS-TE17-9.1B		0.000	0 710 011 10	DEADE 144	110 05=0	
212		DIODE DAN202K-T-146		D623	8-719-911-19			
402		DIODE UDZS-TE17-6.8B		D627	8-719-063-70			
405		DIODE UDZS-TE17-6.8B		D629	8-719-073-23			
406	8-719-069-57	DIODE UDZS-TE17-6.8B		D631	8-719-921-63			
				D632	8-719-063-70	DIODE DIN	L20U-TA2	
407		DIODE UDZS-TE17-6.8B						
412		DIODE UDZS-TE17-6.8B		D633	8-719-109-69			
414		DIODE UDZS-TE17-6.8B		D634	8-719-074-43			
420		DIODE UDZS-TE17-6.8B		D639	8-719-080-59			
421	8-719-049-26	DIODE RB721QT-77		D640	8-719-921-63	DIODE MTZ	J-T-77-7.5B	
				D1201	8-719-069-55	DIODE UDZ	S-TE17-5.6B	
423	8-719-069-57	DIODE UDZS-TE17-6.8B						
424	8-719-069-60	DIODE UDZS-TE17-9.1B		D1203	8-719-914-43	DIODE DAN	202K-T-146	
435	8-719-069-60	DIODE UDZS-TE17-9.1B		D1204	8-719-069-55	DIODE UDZ	S-TE17-5.6B	
436	8-719-069-60	DIODE UDZS-TE17-9.1B						
501		DIODE GP08DPKG23			< FUSE >			
	8-719-056-95	DIODE UDZ-TE-17-22B		F601	-1-576-232-21	Fuse (H.B	(C.) 5A/250V	
502								
502 503	8-719-069-55	DIODE UDZS-TE17-5.6B		- × Δ	1-533-725-11	HOLDER, F	USE (F601)	

The components identified by shading and marked ∆ are critical for safety
Replace only with the part number specified.



REF. NO.	PART.NO	DESCRIPTION		REMARK	REF. NO.	PART.NO	DESCRIPTION		F	REMARK
	< FERRITE	BEAD >			L601	1-408-603-31	INDUCTOR	10UH		
					L602	1-408-611-31	INDUCTOR	47UH		
FB601	1-410-397-21	FERRITE	1.1UH		L603	1-412-524-11		8.2UH		
FB604	1-410-397-21	FERRITE	1.1UH		L1200	1-535-303-00	LEAD, JUMPER	(5.0MM)		
FB605	1-410-397-21		1.1UH		L1203	1-535-303-00	LEAD, JUMPER	(5.0MM)		
	Δ 1-412-911-11 Δ 1-412-911-11		OUE			< PHOTO C	OUPLER >			
	< IC >				PH601 /	x 8-749-016-21	IC TCET1103G			
IC002	0_740_01744	IC TSOP1540SE1				< TRANSIS	TOR >			
IC002	8-759-672-39		•							
IC501	8-759-324-56				0016	8-729-120-28	TRANSISTOR 25	C2412K-T	-146-R	
IC501 IC531	8-759-665-11				Q212		TRANSISTOR 2			
	8-759-663-11				0401		TRANSISTOR 29			
IC601	8-139-611-30	1C MC23001D			Q411		TRANSISTOR 25			
	0.740.016.10	TO CELDEN LEA			Q532		TRANSISTOR IS			
IC602		IC SE135N-LF4 IC BA41W12ST-V	75		*332	5 ,27 033 33				
10604					Q533	9_729_051_92	TRANSISTOR BU	14508DX-0	N5210	
IC608		IC L78L33ABZ-	AP .		0535		TRANSISTOR IN			
IC609	8-759-468-89				Q601		TRANSISTOR 25			
IC1201	8-759-665-29	IC TDA/494S			_	•	TRANSISTOR 2		-	
					Q602					
	< SOCKET	>			Q603	8-729-029-56	TRANSISTOR D	ra14465a-	TP	
J401	1-770-130-11	CONNECTOR (SQ	JARE TYPE) 21	P	Q604	8-729-030-02	TRANSISTOR D	rc144esa-	TP	
J402		JACK, PIN 2P	•		Q606	8-729-052-29	TRANSISTOR 2	SK2876-01	MR-F122	
J1200	1-568-267-21	•			Q607	8-729-052-29	TRANSISTOR 2	SK2876-01	MR-F122	
01200	1 300 20, 11	V.1.011			Q608	8-729-120-28	TRANSISTOR 2	SC2412K-T	-146-QR	
	< COIT >				Q609		TRANSISTOR 2			
L001	1-408-611-31	TNDIICTOR	47UH			< RESISTO	OR >			
L002	1-410-119-11		1MH							
L004	1-408-611-31		47UH		JR002	1-216-295-91	SHORT	0		
	1-408-611-31		47UH		JR009	1-216-295-91		0		
L006			0		JR023	1-216-295-91		0		
L027	1-216-295-91	SHORT	U		JR208	1-216-295-91		0		
		TURNAMOR	47777		JR401	1-216-295-91		0		
L101	1-412-533-21		47UH		UK401	1-210-293-91	SHORI	U		
L102	1-408-611-31		47UH		777.04	1-216-295-91	SHORT	0		
L405		LEAD, JUMPER	(5.0MM)		JR404			0		
L407		LEAD, JUMPER	(5.0MM)		JR408	1-216-296-91				
L410	1-216-025-91	RES-CHIP	100 5%	1/10W	JR409	1-216-295-91		0		
					JR420	1-216-295-91		0		
L446	1-216-295-91		0		JR508	1-216-295-91	SHORT	0		
L501	1-414-187-11	INDUCTOR	47UH							
L502	1-412-531-31	INDUCTOR	33UH		JR516	1-216-296-91		0		
L503	1-412-521-31	INDUCTOR	4.7UH		JR517	1-216-296-91		0		
L504		LEAD, JUMPER	(5.0MM)		JR601	1-216-296-91		0		
					JR609	1-216-296-91	SHORT	0		
L505		LEAD, JUMPER	(5.0MM)					,	-	Ara.
L507	1-412-533-21		47UH		R003	1-216-065-91		4.7K		
1532	1-412-553-11	INDUCTOR	3.3MH		R004	1-216-033-00			5% 1/1	
L533	1-406-989-21	INDUCTOR	10MH		R005	1-216-190-00			5% 1/8	
L535	1-459-111-00		10MH		R006	1-216-025-91	RES-CHIP	100	5% 1/1	
					R007	1-216-025-91	RES-CHIP	100	5% 1/1	LOW
1537		COIL, HORIZON		!		4 848 88=	DWA 2007	100		I Au
L538	1-406-984-11	INDUCTOR	1.5MH		R008	1-216-025-91	RES-CHIP	100	5% 1/:	LUW
					1					



REF. NO.	PART.NO	DESCRIPTION	N		REMARK	REF. NO.	PART.NO	DESCRIPTION	٧		REMARK
R009	1-216-049-91	RES-CHIP	1K	5%	1/10W	R070	1-216-025-91	RES-CHIP	100	5%	1/10W
R010	1-216-049-91	RES-CHIP	1K	5%	1/10W	R071	1-216-049-91	RES-CHIP	1K	5%	1/10W
R011	1-216-295-91	SHORT	0			R072	1-216-295-91	SHORT	0		
R012	1-216-113-00	RES-CHIP	470K	5%	1/10W	R074	1-216-073-00	RES-CHIP	10K	5%	1/10W
R014	1-216-069-00	RES-CHIP	6.8K	5%	1/10W	R075	1-216-295-91	SHORT	0		
R017	1-216-174-00	RES-CHIP	100	5%	1/8W	R089	1-216-295-91	SHORT	0		
R018	1-216-689-11	METAL CHIP	39K	0.5%	1/10W	R093	1-216-081-00	RES-CHIP	22K	5%	1/10W
R020	1-216-077-91		15K	5%	1/10W	R094	1-216-025-91	RES-CHIP	100	5%	1/10W
R021	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R095	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R022	1-216-089-91	RES-CHIP	47K	5%	1/10W	R096	1-216-025-91	RES-CHIP	100	5%	1/10W
R023	1-216-180-00	RES-CHIP	180	5%	1/8W	R101	1-216-093-91	RES-CHIP	68K	5%	1/10W
R024	1-216-025-91		100	5%	1/10W	R102	1-216-097-91	RES-CHIP	100K	5%	1/10W
R025	1-216-025-91		100	5%	1/10W	R104	1-216-295-91	SHORT	0		
R026	1-216-025-91		100	5%	1/10W	R106	1-215-900-11	METAL OXIDE	22K	5%	2W
R027	1-216-025-91		100	5%	1/10W	R107	1-216-025-91	RES-CHIP	100	5%	1/10W
R028	1-216-025-91	DWQ_CUTD	100	5%	1/10W	R108	1-216-025-91	RES-CHIP	100	5%	1/10W
R029	1-216-023-91		3.3K		1/10W	R246	1-260-107-11		4.7K		1/2W
R023	1-216-210-00		3.3K		1/8W	R248	1-249-429-11		10K		1/4W
R033	1-216-273-00		10K	5%	1/10W	R249	1-216-097-91		100K		1/10W
R034	1-216-123-11		1.2M		1/10W	R250	1-216-230-00		22K		1/8W
					4.44.00		1 016 014 00	DEC 6777	4 77	Fo	1 /02
R035	1-216-101-00		150K		1/10W	R401	1-216-214-00		4.7K		1/8W
R036	1-216-083-00		27K	5%	1/10W	R404	1-216-113-00		470K		1/10W
R038	1-216-295-91		0			R406	1-216-214-00		4.7K		1/8W
R039	1-216-214-00		4.7K		1/8W	R408	1-216-022-00		75	5%	1/10W
R040	1-216-049-91	RES-CHIP	1K	5%	1/10W	R409	1-216-025-91	RES-CHIP	100	5%	1/10W
R041	1-216-025-91	RES-CHIP	100	5%	1/10W	R410	1-216-025-91	RES-CHIP	100	5%	1/10W
R042	1-216-025-91	RES-CHIP	100	5%	1/10W	R411	1-216-022-00	RES-CHIP	75	5%	1/10W
R044	1-216-073-00	RES-CHIP	10K	5%	1/10W	R412	1-216-025-91	RES-CHIP	100	5%	1/10W
R045	1-216-025-91	RES-CHIP	100	5%	1/10W	R414	1-216-022-00	RES-CHIP	75	5%	1/10W
R046	1-216-025-91	RES-CHIP	100	5%	1/10W	R415	1-216-022-00	RES-CHIP	75	5%	1/10W
R047	1-216-025-91	RES-CHIP	100	5%	1/10W	R416	1-216-027-00	RES-CHIP	120	5%	1/10W
R048	1-216-073-00		10K	5%	1/10W	R419	1-216-022-00	RES-CHIP	75	5%	1/10W
R050	1-216-174-00		100	5%	1/8W	R421	1-216-049-91	RES-CHIP	1K	5%	1/10W
R051	1-216-295-91		0			R423	1-216-113-00	RES-CHIP	470K	5%	1/10W
R055	1-216-174-00		100	5%	1/8W	R425	1-216-085-00	RES-CHIP	33K	5%	1/10W
DARC	1-216-025-91	DEC-CUID	100	5%	1/10W	R426	1-216-073-00	RES-CHIP	10K	5%	1/10W
R056 R057	1-216-023-91		27K	5%	1/10W	R435	1-216-295-91		0		-,
	1-216-083-00		100	5%	1/8W	R440	1-216-049-91		1K	5%	1/10W
R060	1-216-174-00		100	5% 5%	1/8W	R441	1-216-051-00		1.2K		1/10W
R061	1-216-174-00		15K	5%	1/10W	R444	1-216-061-00		3.3K		1/10W
R062	1-216-0//-91	KES-Cuir	131	Jī	1/10#	M111	1 210 001 00	120 0111	3,51		2, 20
R063	1-216-061-00		3.3K		1/10W	R445	1-216-022-00		75	5¥	1/10W
R064	1-216-069-00		6.8K	5%	1/10W	R446	1-216-113-00		470K	>₹	1/10W
R065	1-216-295-91		0		4.44.5	R447	1-216-295-91		0	F ^	1 /02
R066	1-216-053-00		1.5K		1/10W	R453	1-216-171-00		75	5% 5°	1/8W
R067	1-216-073-00	RES-CHIP	10K	5%	1/10W	R454	1-216-001-00	RES-CHIP	10	5%	1/10W
R068	1-216-083-00	RES-CHIP	27K	5%	1/10W	R461	1-216-022-00	RES-CHIP	75	5%	1/10W
R069	1-216-073-00	RES-CHIP	10K	5%	1/10W	R501	1-216-091-00	RES-CHIP	56K	5%	1/10W
						1					

The components identified by shading and marked △ are critical for safety Replace only with the part number specified.



REF. NO.	PART.NO	DESCRIPTIO	N		REMARK	REF. NO.	PART.NO	DESCRIPTIO	N		REMARK
R502	1-216-073-00	RES-CHIP	10K	5%	1/10W	R561	1-216-129-00	RES-CHIP	2.2M	5%	1/10W
R503	1-215-888-00	METAL OXIDE	220	5%	2W	R562	1-216-121-91	RES-CHIP	1M	5%	1/10W
R504	1-249-385-11	CARBON	2.2	5%	1/4W	R565	1-216-025-91	RES-CHIP	100	5%	1/10W
R505	1-216-677-11	METAL CHIP	12K	0.5%	1/10W	R583	1-216-081-00	RES-CHIP	22K	5%	1/10W
R506	1-216-665-11	METAL CHIP	3.9K	0.5%	1/10W	R589	1-216-295-91	SHORT	0		
R507	1-216-349-00	METAL OXIDE	1	5%	1W	R591	1-217-778-11	FUSIBLE	1K	5%	1W
R508	1-216-677-11	METAL CHIP	12K	0.5%	1/10W	R595	1-249-377-11	CARBON	0.47	5%	1/4W
R509	1-216-665-11	METAL CHIP	3.9K	0.5%	1/10W	R600	1-216-619-11	METAL CHIP	47	0.5%	1/10W
R510	1-216-113-00	RES-CHIP	470K	5%	1/10W	R601	1-216-641-11	METAL CHIP	390	0.5%	1/10W
R512	1-249-382-11	CARBON	1.2	5%	1/4W	R602	1-202-962-11	CEMENTED	3.3	5%	10W
R513	1-216-097-91	RES-CHIP	100K	5%	1/10W	R603	1-220-926-11	FUSIBLE	0.47	10%	1/2W
R514	1-249-377-11	CARBON	0.47	5%	1/4W	R605	1-216-049-91	RES-CHIP	1K	5%	1/10W
R515	1-249-377-11	CARBON	0.47	5%	1/4W	R606 A	1-202-719-00	SOLID	11	-10%	.1/2W
R516	1-214-907-00	METAL	56K	1%	1/2W	R608	1-216-073-00	RES-CHIP	10K	5%	1/10W
R517	1-215-469-00	METAL	100K	1%	1/4W	R609	1-216-675-91	METAL CHIP	10K	0.5%	1/10W
R518	1-216-663-11	METAL CHIP	3.3K	0.5%	1/10W	R610	1-215-481-00	METAL	330K	1%	1/4W
R520	1-215-883-11	METAL OXIDE	33	5%	2W	R611	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R521	1-216-109-00	RES-CHIP	330K	5%	1/10W	R612	1-249-429-11	CARBON	10K	5%	1/4W
R522	1-216-069-00	RES-CHIP	6.8K	5%	1/10W	R613 🛆	1-218-265-11	METAL	. 8+2M	.51	1N
R523	1-216-117-00	RES-CHIP	680K	5%	1/10W	R615	1-215-405-00	METAL	220	18	1/4W
R524	1-216-075-00	RES-CHIP	12K	5%	1/10W	R618	1-247-889-00	CARBON	270K	5%	1/4W
R525	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R619	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R526	1-216-089-91	RES-CHIP	47K	5%	1/10W	R621	1-216-113-00	RES-CHIP	470K		1/10W
R527	1-216-075-00	RES-CHIP	12K	5%	1/10W	R622	1-216-073-00	RES-CHIP	10K	5%	1/10W
R528	1-216-097-91	RES-CHIP	100K	5%	1/10W	R623	1-216-081-00	RES-CHIP	22K	5%	1/10W
R529	1-216-073-00	RES-CHIP	10K	5%	1/10W	R624	1-216-001-00	RES-CHIP	10	5%	1/10W
R530	1-216-085-00	RES-CHIP	33K	5%	1/10W	R625	1-216-073-00	RES-CHIP	10K	5%	1/10W
R531	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R627	1-249-389-11	CARBON	4.7	5%	1/4W
R532	1-216-059-00	RES-CHIP	2.7K	5%	1/10W	R628	1-247-791-91	CARBON	22	5%	1/4W
R533	1-216-081-00	RES-CHIP	22K	5%	1/10W	R629	1-216-073-00	RES-CHIP	10K	5%	1/10W
R534	1-216-093-91	RES-CHIP	68K	5%	1/10W	R632	1-249-417-11	CARBON	1K	5%	1/4W
R535	1-216-083-00	RES-CHIP	27K	5%	1/10W	R633	1-215-481-00	METAL	330K	1%	1/4W
R539	1-215-892-11	METAL OXIDE	1K	5%	2W	R634	1-216-341-11	METAL OXIDE	0.22	5%	1W
R540	1-217-495-00	FUSIBLE	150	5%	1W	R635	1-260-300-11	CARBON	4.7	5%	1/2W
R542	1-216-121-91	RES-CHIP	1M	5%	1/10W	R636	1-249-413-11	CARBON	470	5%	1/4W
R543	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R637	1-216-041-00	RES-CHIP	470	5%	1/10W
R544	1-216-103-00		180K		1/10W	R639	1-216-683-11		22K		1/10W
R546	1-215-923-00		10K		3W	R640	1-216-699-91				1/10W
R547		LEAD, JUMPER	-		•	R641	1-216-097-91		100K		1/10W
R548	1-212-849-00		4.7		1/4W	R642	1-249-405-11		100	5%	1/4W
R549	1-216-362-11	METAL OYTHE	0.27	5%	2W	R643	1-216-089-91	DEC-CHID	47K	5%	1/10W
R551	1-215-873-00		4.7K		1W	R645	1-216-073-00		10K	5%	1/10W
R552	1-215-873-00		4.7K		1/10W	R647	1-216-0/3-00				•
R553	1-249-381-11		1	5%	1/4W	R648	1-215-449-91		1K 330K	5% 1 c	1/10W
R557	1-216-065-91		4.7K		1/10W	R649	1-215-481-00				1/4W 1/10W
R558	1-216-025-91	DEC CUID	100	5%	1/10W	R650	1-216-627-11	10001 COTA			1/10W
		# # N = 1 H (D	1 1 1 1 1 1	7 K	1 / 1 LPW						



The components identified by shading and marked △ are critical for safety
Replace only with the part number

Replace only	with	the	part	numi	Эe
specified.					

REF. NO.	PART.NO	DESCRIPTION			REMARK	REF. NO.	PART.NO	DESCRIP	TION		REMARK	
R652	1-216-081-00	RES-CHIP	22K	5%	1/10W	A Boa	rd Variant Pa	arts KV-1	4LM1			
R653	1-216-073-00	RES-CHIP	10K	5%	1/10W							
R654	1-216-001-00		10	5%	1/10W		< IC >					
R656	1-216-365-00		0.47		2W							
R660	1-247-807-31	CARBON	100	5%	1/4W	IC001 IC004	8-759-671-89 8-759-575-71			130/T	3	
R1200	1-260-093-81	CARBON	330	5%	1/2W	10004	0-109-010-11	1C M24CU4	-WMN OT			
R1201	1-260-093-81		330	5%	1/2W		< TUNER :	>				
R1204	1-216-049-91		1K	5%	1/10W							
R1205	1-216-061-00		3.3K	5%	1/10W	TU101	8-598-535-00	FRONTEND I	BTF-EF411	(KV-:	(4LM1B)	
R1206	1-216-073-00	RES-CHIP	10K	5%	1/10W		8-598-531-00	FRONTEND 1	BTF-EF401	(KV-	(4LM1E)	
							8-598-537-00	FRONTEND 1	BTF-EP401	(KV-	14LM1K)	
R1207	1-216-083-00	RES-CHIP	27K	5%	1/10W		8-598-527-00	FRONTEND 1	BTF-EU601	(KV-	L4LM1U)	
R1213	1-216-198-91	RES-CHIP	1K	5%	1/8W							
< RELAY >							A Board Variant Parts KV-14LT1					
						< CAPACITOR >						
RY601 A 1-755-388-11 RELAY (AC POWER)							\ \mathcall	104 >				
	< SWITCH					C416	1-126-964-11	ELECT	10UF		20.00% 50V	
	< SWITCH	′					✓ DIODE Y					
S001	1-571-532-21	SWITCH, TACT	'IL				< DIODE :	,				
S002	1-571-532-21	SWITCH, TACT	'IL			D404	8-719-923-38 DIODE MTZJ-T-77-5.6B					
S003		SWITCH, TACT				D408		DIODE UDZS-TE17-6.8B				
S004	1-571-532-21											
S005	1-571-532-21	SWITCH, TACT	'IL				< IC >					
S006	006 1-571-532-21 SWITCH, TACTIL						IC001 8-759-671-88 IC TDA9329H/N1/4/0131/T3					
S601 A. 1-571-433-21 SWITCH, PUSH-(AC. POWER)						IC004	8-759-575-72					
OME 2.1	1 570 707 11	CUITACU I DUB	מי			IC401	8-759-665-11	IC LM393D	ľ			
SW532 1-572-707-11 SWITCH, LEVER						< RESISTOR >						
	< TRANSFO	ORMER >										
A 17 A 4 ST A 17 A 1	1. The Shield Company of the Control	delte Avecacia-referencia er calciana de la selacia a	e-not a sin-Linearitable and	Manifestion 1970.	K (NX-1747//U2A4)	JR406	1-216-295-91	SHORT	0			
T531		TRANSFORMER,				R420	1-216-073-00	RES-CHIP	10K	5%	1/10W	
10 Act 1 (2) ACT 1480 50.	Commence of the Commence of th	Ye is the contributed the effective and contribute the contribute	OR ARRONAL MARKET AND AND ADDRESS OF THE PERSON NAMED AND ADDR	PERSONAL PROPERTY	(CDM)	R428	1-216-073-00	RES-CHIP	10K	5%	1/10W	
T602		TRANSFORMER,				R429	1-216-089-91	RES-CHIP	47K	5€	1/10W	
1003 2	v ilanantik	TUBBOL OWNER!	eville.)+= V ()	PIT)						(KV-14LT1B)	
< THERMISTOR >							1-216-073-00	RES-CHIP	10K		1/10W	
						(KV-14LT1E/14LT1K/14LT1U)						
TH601	1-803-586-11	THERMISTOR,	NTC			R430	1-216-073-00	RES-CHIP	10K	5%	1/10W	
202527322427 C	ger sammen og gjenner med men men som en sen er som en	<u> </u>	500 TO 100 T	gg (gg servi	TE TE THE TENED OF	R431	1-216-073-00	RES-CHIP	10K	5%	1/10W	
THP601	V 1-803-921-11	THERMISTOR)	PTC .		4.11	R433	1-216-073-00	RES-CHIP	10K	5%	1/10W	
	< VARISTO	OR >				R434	1-216-073-00	RES-CHIP	10K	5%	1/10W	
							< TUNER >	>				
VDR601	A 1-803-830-11	VARISTOR (ER	ZV14D62	21)								
	< CRYSTAI	L >				TU101	8-598-535-00			•	•	
/ CUIDIUM /							8-598-531-00 FRONTEND BTF-EF401 (KV-14LT1E) 8-598-537-00 FRONTEND BTF-EP401 (KV-14LT1K)				•	
X001	1-578-774-11	VIBRATOR, CR	YSTAL+				8-598-537-00 8-598-527-00			•	•	
							0-330-321-00	TWOMIEND !)16-F0001	/VA-1	ויוובר	

The components identified by shading and marked Δ are critical for safety Replace only with the part number specified.

REF. NO.

PART.NO

DESCRIPTION

REMARK

REF. NO. PART.NO DESCRIPTION

REMARK

MISCELLANEOUS

Δ. 1-4194548-11 #COIL DEGAUSSING

1-452-032-00 MAGNET, DISK; 10MM

1-452-094-00 MAGNET, ROTATABLE DISK; 15MM

点 1-453-347-11 TRANSFORMER ASSY; FLYBACK*(NX-1747//U2A4)

1-529-711-11 SPEAKER (8CM)

1-571-433-21 SWITCH PUSH (AC POWER)

1-765-286-11 CORD POWER (KV-14LM18/14LM1E/14LM1K/

kv-laltib/laltib/laltik).

1-776-860-11 PONER CORD FILTER (KV-141M1B/141M1B) KV-14LM1U/14LT1U)

8-598-535-00 FRONTEND BTF-EF411(KV-14LM1B/14LT1B)

8-598-531-00 FRONTEND BTF-EC401(KV-14LM1E/14LT1E)

8-598-537-00 FRONTEND BTF-EP401(KV-14LM1K/14LT1K)

8-598-527-00 FRONTEND BTF-EU601 (KV-14LM1U/14LT1U)

Δ 8-735-570-05 PICTURE TUBE (A34LRG70X)

A. 8-451-401-21 DEFLECTION YOKE (Y14RSA-L)

A: 1-540-007-13 CAP ASSY, HIGH VOLTAGE

ACCESSORIES AND PACKAGING MATERIALS

*4-205-481-21 MANUAL, INSTRUCTION (KV-14LM1B/14LT1B)

(GERMAN/FRENCH/ENGLISH/ITALIAN/DUTCH)

*4-205-481-51 MANUAL, INSTRUCTION (KV-14LM1E/14LT1E)

(DANISH/GERMAN/SPANISH/GREEK/ITALIAN/ NORWEGIAN/PORTUGUESE/SWEDISH/FINNISH/TURKISH)

*4-205-481-41 MANUAL, INSTRUCTION (KV-14LM1K/14LT1K)

(BULGARIAN/CZECH/ENGLISH/DUTCH/

POLISH/RUSSIAN/SLOVAKIAN)

*4-205-481-31 MANUAL, INSTRUCTION (KV-14LM1U/14LT1U)

(ENGLISH)

1-501-615-31 ANTENNA, LOOP (KV-14LM1)

1-501-840-11 ANTENNA, TELESCOPIC (KV-14LT1)

*4-039-905-11 BAG, PROTECTION

*4-205-480-01 INDIVIDUAL CARTON

*4-205-479-01 CUSHION (UPPER) (ASSY)

*4-205-474-01 CUSHION (LOWER) (ASSY)

REMOTE COMMANDER

1-418-476-21 REMOTE COMMANDER (RM-887) (14LT1)

1-476-176-11 REMOTE COMMANDER (RM-889) (14LM1)